

ACE

ST AMIGA C64
CPC SPECTRUM PC
ININTENDO SEGA

HYPER
ISSUE

ADVANCED COMPUTER ENTERTAINMENT

Blockbusting CDI Bat-Fantasy from New York

EGADS:

Britain's first hypergame generator in action



Aliens zapped my little Willy!

Classic shoot-em-up blasts from the past, present, and far future...

THE LOST PATROL

Ocean storm the jungles of Vietnam; plus all the latest releases captured and interrogated



Hypermedia, Hypergames, hyper-

confused, hyperexplained

MASTERS OF THE AR



ARCADE CHALLENGE!















CTRES, DEADLY DEMONS... RE DEVIL KNIGHT IS BACK!





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SPECIALS

CD-I BATFANTASY

Pepe Moreno, New York cartoonist, contributor to Heavy Metal and Thunder Cats (amongst many others), is designing the ultimate interactive comic experience.



VIETNAMANIA......28 Not content with Platoon, Ocean are now storming into Vietnam with The Lost Patrol. ACE followed them into the jungle.

ACES HIGH..... ACE's undercover agent infiltrated the

CES Show in Las Vegas and returned with a sizzling expose of technoporn, featuring tomorrow's technology from today's international developers.

BLASTS FROM THE PAST.....87 ACE meets the first ever end-of-level nasty in the definitive guide to shoot-em-up history.



X-Out - first of a new breed of shoot-em-ups and a long, long way from Invaders.

FLASHBACK...

The decade that created computer entertainment draws to an end as we present the final episode of the greatest story ever told.

MICRO-PRATCHETT28 We've absolutely no excuse for putting Terry Pratchett

in the magazine, except he makes us laugh, writes great books (Colour of Magic, Discworld series...), and...er...uses a computer.

MEET THE MAESTROS81 The ACE Conferences could change your whole attitude towards games: but only if you turn up.

HORROR!

Fergus McNeill used to struggle with The Quill video camera and a dagger, creating scenes. for his first hypergame: Psychokiller, proout more on page 11 and pages 61/62.

GAMES BUSTING

This month's no-holds-barred reviews include the surprisingly good Pro Tennis from Ubisoft and the surprisingly disappointing Harley Davidson from Mindscape. And we've introduced the new 1990's PIC technology to make ACE's reviews pages look even better than ever.

AUSTERLITZ Mirrorsoft.....

CONOUEROR Rainbow Arts......34

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WIN

To celebrate the launch of The Lost Patrol, Ocean are giving away a free

APOCALYPSE NOW...

It's started. Games-programming technology is reaching critical mass. The Big Software Meltdown is about to begin...It's all to do with the development of hypermedia and its games derivative: the hypergame.

You've already read about Cosmic Osmo in ACE. Now you can check out:

Pepe Moreno, the New Yorker whose interactive comic is living proof of his

- Pepe Moreno, the New Yorker Whose interactive comic is living proof of his claim that digital data is the entertainment medium of the future.
 The theories and facts behind hypermedia, CD-I, DVI, buttons, and much
 - The beginnings of the UK software revolution: which companies are leading the race to develop new games technologies?

And if that's not enough, just wait till next month, when we bring you exclusive location reports direct from the USA in a bumper American Issue.

HYPER ISSUE!

into the development of games that will soon take over the world. Find out why, what, where, and when...



Alastair Scott-Godard: pioneering the development of CL entertainment at Compact Solutions. The machine is a Philips CD-I unit as previewed in ACE issue 24.

BAT-FANTASY! HYPER-DI

Many thanks to DC Comics for helping us arrange our interview with Pepe Moreno in the US. Batman: Digital Justice, the comic, will be available in the UK in February: the Macintosh CD-ROM versions should be out later this year. The CD-I version awalts a suitable hardware platform to perform: watch this sAGE.

All Batman artwork © DC Comic

free

HYPER-DEVELOPED 10

A quick peek at two new multimedia entertainments: Fergus McNeil's Psychokillier and Compact Solution's Guinness Book of Records. We reckon these products are the spearhead of a revolution in entertainment software technology.

GIVE US A CLUE

You don't have to be a **big boy** to hyper it up. CRL are developing Britain's first ever **hypergame generator**.



GAMEPLAY

BLOOD TRANSFUSION77 Maps, tips, pokes (and how to poke them) – everything the mortally wounded ego needs to restore pride and high scores in today's bugghest games.

ACE NEW WORLDS	83
Flaming fury. Pat Winstanley braves the R of Drappors of Flame.	

TAKE COVER! 9 Software houses open fire with news of new releases.

REGULARS

REGULARS

NEWS.

Land hol Ocean finally launches the superlative Rainbow Islands; Hard Drivers get extra tracks; plus all the latest whispers from the world of advanced computer entertainment.

exclusive subscribers' newsletter. IN THE PINK.......91

The ACE Stockmarket: Britain's only games chart that goes by authoritative opinion, and not hyped sales; the ACE Crossword; the ACE Diary; in fact, a plethora of pleasures for your pinkies.

OCEAN GET IT TAPED - P31

VCR - AND a great collection of 'Nam movies. Grab a pen and get yourself into the jungle.



ACE NEWS

PLAY BATMAN ON CDI, WORK FOR ACE, OR HELP DESIGN A GAME

BATMAN ON CDI

An ACE exclusive by Rik Havnes in New York



Batman Digital Justice © 1989 DC Comies Inc. All Rights Reserved.

Warner Bros. and Sony are currently negotiating a deal to produce DC Comies' — a subsidiary of Warner Bros. – new cyberpunk Bartaman Digital control of the Bros. Did projects in the future, which could be tie-lis with Prince music, Clint Eastwood Dirty Harry movies or Time magazine— all of which are a part of the giant Warner Bros. Coorpration.

Warner Bros. corporation. The completely computer-generated Batman Digital Justice comit book is available in the stores later this moth, and its created Pres Morens is currently expended by the stores later this moth, and its created Pres Morens is currently expended by the stores and the stores later this moth, and the stores were so that the store that are the same data as their paper parent, Morens explained to ACE: "It's all digital data, and digital data is very easy to manipulate. Digital is the art medium of the future."

ACE visited Pepe Moreno at his Manhattan studio in New York for an exclusive interview with the person who "sells the future to corporations", the creator of the world's first hypercomic — the article starts on page 23. For a full explanation of CDI and hypermedia turn to page 57.

AT THE END OF THE RAINBOW...

Ocean is releasing the home conversions of the fantastic Rainbow Islands Taito coin-op later this month on all major micro formats.

This 934-rated sequel to Bubble Bobble was written by Graftgold for Microprose last year – the ST version was reviewed back in ACE 24. Unfortunately for Microprose the original deal with Taito fell-through and it was unable to release its excellent micro conversions.

Now Ocean has signed an agreement with Taito securing the home computer rights to the game, and has bought Graftgold's Rainbow Islands computer code from Microprose for an undisclosed sum' rumoured to be in the region of £50000.



ACE NEEDS

How would you like to experience the thrills and spills of working on ACE under the Project Trident job placement scheme? We're looking for a talented, enthusiastic and friendly young person to help us in all areas of magazine production. from administration to journalism The ideal candidate will be able to learn quickly, work under their own initiative and under pressure, and possess an in-depth knowledge of Advanced Computer Entertainment. Get writing to: ACE PROJECT TRIDENT, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

SEGA SURPRISES

Sega has launched two new controllers for its Master 8-bit console. The Handle Controller is a matt-black twin-handled deck with





HATIK

ying for pole position in RC

Stepa Master Stapahot. Thope it's as good as the Paul Neuman mode! rapid fire switches for £39,95. The £9.95 SG Commander is an upgrade for the normal control pad with an added rapido sider. Sega Master owners can also look forward to three new games. Assaut City, Slapshot, RC Grand Assaut City, Slapshot, RC Grand

Prix later this month

SYMBOLICS SIZZLERS

The ACE newsdesk – which doubles up as Rik's desk for all but the day we go to press – recently had the pleasure of receiving a stunning brotchure from Symbolics. This company provides professional 2D+3D graphic animation systems to the likes of TV and advertising companies. So just feast your eyes on what its systems can produce...



GOTTA VIDEO, WANNA CONSOLE?

Action Screenplay, the video magazine, is releasing a £9.95 VIV video buyers-guide to consoles including the Nintendo NES, Nintendo Game Boy, Sega Master System, Sega Megadrive, PC Engine, Konix and Atari Lyrox

gamedecks.

ACE IN USA • Check out page 18 for a full

 Check out page 18 for a full report on the US Winter CES show in Las Vegas.

in Las Vegas.

Sega is rumoured to be working on a handheld console in direct response to the phenomenally successful Nintendo Game Boy, the newly-launched Atari Lyrix and



Golden Axe on the Sega 16-bit Gen-

the just-announced NEC portable-PC Engine handheld consoles. The Sega console could have a wealth of excellent Sega coin-ops converted to it immediately like Out Run, Space Harrier, Power Drift, Afterburner and Galaxy Force. No price or release details are cur-

rently available. · Atari Corp. and Atari Games, the computer and coin-op companies that split in 1984 when Warner Bros. sold Atari Corp. to Jack Tramiel, have got back together in a deal to convert Atari Games' Tengen coin-op titles to Atari Corps. Lynx handheld colour console. Confused? You shouldn't be. What this boils down to is forthcoming Lyrix conversions of Hard Drivin', STUN Runner and Cyberball. Other possible conversions could include a regular 'whose who' of coin-op classics: Gauntlet, Road Blasters, Star Wars, Empire Strikes Back, Return of



ACE ON THE



n a warm winter's day, Steve nd Rik head out for Putney to isit the domain of Domark – and he local Malaysian restaurant...

Domark has a string of new multi-format releases due ou over the next few months: Klax, Escape from the Planet of the Robot Monsters, Cyberball, Hard Drivin' Extra Tracks, The Spy Who Loved Me, Wings of Fury and Castle Master.

Featured in the ATE show poptr on page 64, Max is Renews batest coincip release, a seadod-30 Terbissipped to take let game. The interesting aspect he first time a coincip developer as handed over a coincip comcernion to a software company, ix months prior to the coincip per air release. Thus the coincip and computer versions can go on imultaneous referese.

A Domark spokespison tool ACE: I think this shows the level of cooperation between us and Tengen! Other Tengen titles coming out soon are Cyberhall, a futuristic 21st Centry vision of American Gottall played by gisht robots 20ft tall by 8th wide – and Escape from the Planet of the Robot Monsters, a Benovie inspired accade adventure with the cutest Shredded Wheal the cutest Shredded wheal

Also on the Tengan label will be the imminent release of the PC and Archimedes conversion of Hard Drivin'. Domark is also bringing out Extra Tracks for the 16-bit versions of Hard Drivin', in





Escape from the Planet of the Shredded Wheat, sorry Robot



and on the Spectrum
ice has yet been set but they're
ely to be in the region of £1012

Following in the Domark tradition of James 007 Bond computer games, early summer will see the micro-incarnations of The Soy Who Loved Me movie. The multi-stage arcade game approach will probably be used

Set in the Pacific War du 1944, Wings of Fury is the Broderbund game from States. You pilot an aircraft of erbased Hellcot fighter bon on a mission to knock Japanese island installation the surrounding warzone. ame play consists of the normal prizontally-scrolling shoot'em-up primula enhanced by the nove population of switching between the action.

Domark is set to release other Broderbund games during the first half of '90, and following the success of the Fantavision Amiga graphics package (reviewed in ACE 27), The com-

nany also has plans to launch nore utilities in the future. Last, but by no means least, comes the first game from the bomark/incentive deal featured in last month's news pages. Casde Master is newest Incentive

epic 'freescaping' arcade puzzle adventure, now incorporating 3D solid polygons to spice up the logical thinking.

All these Domark games will be out for the Spectrum, C64 CPC, ST, Amiga and PC in the near future.



Spectrum Cyberball on





ad to Head action in the coin op version of Kla



Temple of Doom, Super Sprint, Vindicators, Xybots, APB, Road Runner, Escape from the Planet of the Robot Monsters, and Rolling Thunder.

· Mean Streets is a tasty-looking VGA PC graphic cyber-adventure set in the year 2033 from Access 'Leaderboard' Software. It's also

available for the C64. · Sega has just converted its Golden Axe hack'n'slash coin-op onto the 16-bit Genesis

(Megadrive) console. . Seika has brought out Icon Simulation's Shadowgate Macintosh role-playing game on the Nintendo

. Double Dragon is being developed for the Nintendo Game Boy handheld console by Tradewest.

· Tengen has released Rolling Thunder, Vindicators and Road Runner coin-op conversions on the Nintendo NES.

. If you buy a pack of 10 Sony 3.5" floppy disks you get a free

"interactive demo" of ABC's Monday Night Football software game. . Data East is releasing EA's popular Battle Chess on the Nintendo

. The award for weirdest game title in America at the moment must surely be a toss-up between Hudson Soft's Princess Tomato in the Salad Kingdom and Kemco-Seika's The Bugs Bunny Birthday

· Activision is bringing out Malibu Beach Volleyball on the Nintendo

Game Boy. . Micro Games USA has launched a range of Game & Watch decks based on some popular NES games like Super Mario Bros., Donkey Kong Jr. and Zelda.

· CSG Imagesoft is developing Dragon's Lair for the Nintendo

ACE PREVIEWS

A preview in ACE is more than just a screenshot and a caption: we actually get our hands on the games as they're being devel-**FSOTERROR** nned

OVER THE HILL AT 21?



Grandslam's coin-op conversion of Sega's Scramble Spirits on the ST

Rob Hill is the 21 year-old programmer of the ST and Amiga versions of Scramble Spirits at Teque software development outfit. He originally started out written boring 'C' programs for big biz mainframes, but was made redundant last year. The ST version took him three months to develop, Amiga Scramble Spirits took five days! Although Hill immediately mentions the fact that everything - disk loader, keyboard/joystick/mouse reader, text writer, ST program logic, etc - was already "in place", all that needed to be rewritten were some of the graphics and sound routines. The Amiga version runs a lot faster than its ST counterpart - 25 frames a second as opposed to 17. This was accomplished through the use of the Amiga's blitter in the sprite routines. The original coin-op version of Scramble Spirits had a max. no. of 4096 sprites on-screen

the Amiga has a max. of 220, and an average of only 40.



lan Harling, the designer of Ocean's Lost Patrol (take a look at page 28 for a recon preview), is also working on a fantasy shoot'em-up called Esoterror. Some very stunning graphics are supplemented by a spell-driven version of Space Harrier! Harling is still working on the crucial gameplay portions of the game and would love to hear your comments and suggestions, write to: lan Harling, 4 Aberdeen Road, Redland, Bristol BS6 6HJ.







BLASTS FROM THE PAST

1982

1985

1987

1988

HY-PERFORMANCE

ACE CHECKS OUT TWO PIONEERING HYPERGAME DEVELOPERS

Could the games programmer soon be a thing of the past? ACE meets two development teams who believe that in the future games will be coded by designers. using powerful hypermedia engines instead of machine code and assembler routines.

ergus McNeill is a name that may ring a few bells. Back in the days when people still played text adventures, Fergus was one of the few game designers to make maximum use of The Quill adventure generator, producing games like

The Boggit, Robin of Sherlock, and Bored of the

Rings. Now he's working on Psy-Britain's second hypergame (the first into the shops will be Herewith the Clues from CRL - see pages 61/62). The game has been created using the same software developsystem (EGADS) as Herewith the Clues, but Fergus faced a far greater challenge. The scenario for the CRL game was

to create his own. This isn't as simple as it sounds. First. you're faced with similar problems to a film director. Visual material has to be recorded, digitised, and edited into sequences within the game.

already in exis-

tence; Fergus had

This involves location shooting, I the implications of hypermedia for expense, and considerable hasde

Then you have to change

roles and become a sound engineer. For the true multimedia experience, you've got to assemble your sound data (all digitised. in this case). Finally, you take on the role of systems programmer and use EGADS to knit all the parts together.

Of course, all that assumes that to start with you were wearing your script development hat. storyboarding the whole game. Easy, eh?

'No, it's not easy,' says Fergus, 'but the system (EGADS) is good and the potential is enormous. For a long time now, systems have been tailored towards pre-defined finished products, but EGADS is limitless. That's the up side. The down side is that being given so much freedom can be frightening at first - but challeng-

Systems like this are also very easy to use. It only takes you ten minutes to learn - but when it comes to dreaming up the best

OSMIC FACTS ways to use the Games like Cosmic Osmo have system's potential. yet to make a big impact in the the whole process UK, but it's only a matter of becomes very chaltime. What do they involve? lenging." And why are they important? You can find out more

about hypermedia principles in

this issue in our Hyperquide on

pages 57-59. Basically, howev-

er, a hypergame is a product

that contains lots of different

moment are first the poor ani-

mation quality of many hyper-

media packages and second

the amount of disk storage

required to put together a

CD-ROM becomes more widely

accepted. Commodore's recent

with CD-ROM, together with

the low-cost Headstart CD-

ROM PC, are therefore particu-

We have the software - soon

we'll have the technology.

ing at the same time.

IT'S A RECORD Alasdair Godard software developer at Pergamon Compact Solutions (PCS -

elements linked together to 500 form a network of video frames. panel) and designsound samples, textual inforer on the Quinness mation, and even discrete Book of Records project, feels much The big letdowns for the same way games enthusiasts at the about the new sys-

ain't seen nothing yet, he asserts. But the trouble is we decent product. All that is set to don't know what change, however, as soon as you are going to see! Whatever hapnens we're going to have to rethink from scratch our ideas about computer ment.

> slow to catch on. games development are beginning to sink in. Stand by for hyperactivity...

PSYCHO KILLER

Psychokiller is designed to be a nail-biting horror. 'Its a John Carpenter type of game, with slight gus. Your car breaks down in the middle of nowhere and a series of sinister happenings lead to the appearance of a psychotic killer





Due to a shortage of staff in the casting department, the psychotic killer actually bears an uncanny resemblance to a digitised Fergus McNeill. The game is still under but will feature around 100 digitised screens together with numerous digitised sound clips.

One thing that's missing is animation, since that is yet to be incorporated in the EGADS system. As soon as it is, Fergus hopes to attempt a fully animated hypergame, using 'rotoscope' Rings animated film, this involves digitising live subjects who are

GUINNESS IS GOOD FOR YOU



Mirrorsoft Now there's a memories of some superb US licensed products, including Defender of the Crown,

Olds, Dungeon Master, and Imageworks' Xenon II. What isn't quite so well-known is that Mirrorsoft share offices with a company called Pergamon Compact Solutions. And they've recently announced the establishment of a new multimedia development laboratory, following a £5m investment from Mirrorsoft into PCS. This could be the most significant news for UK gamesters this

Basically, it means that for the first time a UK software company with games expertise will have access to CD-ROM and CD-I relevant techniques in their interactive version of the Guinness the decision to head for CD technology was '...very similar to the decision we took four years ago to concentrate on 16-bit software.



sion now to build up We'll be bringyou regular updates on this emergent technology, and its implications for games, during the coming year.

It was a huge risk at

the time, but it has

paid off. We're mak-

ing the same deci-

12 fantastic levels of frenetic activity, 2 bonus rounds on your jet-board, amazing sound effects, music and graphics all go to create one of the most authentic conversions ever.



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EXCLUSIVE to subscribers

ACE CONFERENCES

ACE will also be acting as a communications link between you, the readers, and software houses during 1990. Write setting us a series of ACE confer- ences in which readers will be given the opportunity to meet software houses and talk to them about their games (and you don't have to be pother eithers on an informal basis. Lunch will be supplied and admission will be tree to subschröser, who will also receive priority allocation a valuable boxine subschröser, who will also receive priority allocation a valuable boxine received in the magazine, so you could get you mrug in the mag as a borust!

InterfACE

Subscribers will receive, completely free of charge, a special quarterly meetiner put opperare acclusively for them by the ACE Team. This will bring you details of some of the topics that we can't, for reasons of space or secretory (i), mention in the magazine itself. Subscribers will have the chance to conclude to a fit they wish. With ACE every month, and interfACE every three months, you'll really be at the cutting edge of the computer entertainment revolution.

THE ACE

Subscribe – and the ACE Team will plunge you into a maelstrom of discovery and excitement. Reporting direct from the heart of the entertainment inferno, the ACE Team have ensured that their readers have been the FIRST to find out about many startling new developments in the games-playing world. Here's what you've been missing...

THE TRAIL-BLAZING PAST

ACE was launched in 1988 by a small team of dedicated computer entertainment journalists. They wanted to produce a games magazine that would, for the first time, appeal to people who really took their games seriously and who, like the ACE Team, wanted to go beyond game reviews into the world of advanced entertainment technologies.

One year later and the magazine was outselling its rivals and being voted Magazine of the Year. In recent months, ACE has brought you exclusive coverage of:



Hypergames: the game style that began with Manhole and Cosmic Osmo and is paving the way for CO-I entertainment – defined and described for the first time in ACE.

The Flare Micro: the state-of-the-art games hardware that later became the heart of the Konix console: revealed for the first time exclusively in ACE.

Interactive Compact Disk Entertainment: the Phillips CD-I unit, previewed exclusively in ACE and due for release in the next few months at under £1000.

FM Towns: a 32-bit Japanese games monster with a builtin CD-ROM that carries a mean *AfterBurner* conversion and a staggering technical specification.



E STORY

pACE setting

throughout the year.

ACE will also be running a unique reader campaign in early 1990. If you've got a copy of the relevant issue, you'll be

The ACE Challenge: a £20,000 challenge to the hardware industry to give us a dedicated games machine which can deliver truly advanced computer entertainment. The first of the ACE Challengers will be giving us the full spec of their record breaking micro in the next issue of ACE

Interactive Video Tape: a new games standard in the USA that is turning video tape recorders into powerful interactive games systems.

...and much much more...

se in

THE GLORIOUS FUTURE

By subscribing to ACE, you inherit a great tradition of in-depth coverage of computer and electronic entertainment, from the latest coin-op blockbuster to hypergames and MIDI music. Here are just some of the topics you'll be able to catch up on in forthcoming issues:

Born in the USA: an exclusive look at the latest state-of-the-art games software currently under development in the States for the new CD-I and DVI game systems.

Beyond Tetris: an ACE exclusive report from the heart of Russia on Soviet comput-

Inside the Machine: full technical details on the latest generation of intelligent coin-op

Total War: an in-depth examination of wargame psychology and the software, both established and under development, that could make this the fastest growing games area of 1990

...plus a host of other exclusive, in-depth articles on the cutting edge of computer entertainment.

New fACEs

Ever since EMAP bought ACE, we've been preparing for ACE's best ever year...



We've now got Steve Cooke, the original editor who, in conjunction with Pete Connor, was responsible for the early success of the magazine. Pete will be supporting the magazine on a regular basis as a valued freelance consultant.

Steve knows the entertainment industry backwards. Not only was he one of the original Personal Computer Games team back in the early '80's. but he's also involved in script production for stage and film. His knowledge of these other industries will bring ACE readers exclusive highlights in the rapidly emerging world of CD-I and multi-media.

Rik Havnes Rik is ACE's deputy editor, and the man who really keeps his finger on the pulse of the computer games scene. He was previously the Reviews Editor for the weekly magazine New Computer nalism will be bringing ACE readers the latest



Laurence Scotford Laurence was chosen from over 150 highly qualified applicants (including many familiar names in the games business) because, as the new Reviews Editor, he demonstrated to us all that he was not only a highly experienced games player, but also a superb organiser. Each month, he'll be coordinating reviewers from around the country (and even from abroad), bringing you the authoritative reviews you expect from Britain's leading games magazine.





Now that we've got Jim as our Design Editor, we'll be ensuring each month that you not only get the best coverage, but that the design of the magazine also meets your demanding expectations. Jim's anexpert in desktop publishing systems and is rapidly developing an individual style for the magazine using the latest state-of-the-art DTP technology. The way ACE is actually produced makes an interesting topic in itself: you'll be finding out more from Jim over the next few months as he lets you into some of his graphic secrets...

WRITE TO REPLY

MORE THOUGHT PROVOKING FEEDBACK FROM ACE READERS

OLD PILOTS NEVER DIE...

In response to Richard Harrison's letter in issue 28, I would just like to say that I also find that F-16 Combat Pilot is a rather 'tacky' program with awkward controls. Interceptor, although now fairly old, is a far superior game. It may not be such a realistic simulation, but it is much easier to play, with more accessible controls and a short, precise instruction manual which is easily comprehended. The sound in Interceptor is much better and the external views of the plane are a good function. I always have found Digital Integration's flight simulations a bit complex, even their first release. Fighter Pilot on the 8-bit machines. I am sure that there must be other ACE readers with a similar opinion, and that this is not just a minority case.

Robert Stevens, Truro

OK, fair comments. It would appear that we are beginning to identify two groups as far as flight sim fans are concerned: those who want a simulator to mimic the performance of the aircraft as closely as possible, and those who prefer a less realistic (but possibly more accessible) game, with additional features like out-of-cockpit views. There is something to be said for both camps.

...THEY JUST PLAY FLIGHT SIMS!

Your reply to A.Turville's letter on commercial flight simulators (issue 28) was ill-informed and

The problem as I see it is that those who see these programs as boring have missed the approach by a few hundred nautical miles. The fact is that the act of flying any aircraft is seldom boring and certainly no game. Faced with a good simulation, which, not being a game, has no stated goal to be pursued, gamers do not have the foggiest idea what to do with it hence it's boring!

I suggest that A.Turville should go for the Sub-logic simulator... the only simulator remotely

near the real thing. You are obviously unaware of Sub-logic's forthcoming Arline Transport Pilot which will include Boeing 737, 747, 767 and Airbus

Tony Green, Hyde

ACE MACHINE

Thanks for your advice, which I'm sure will be of great interest to A Turville and other readers It would appear that the time is right for an in depth look at available flight sims by a real pilot. So watch the the pages of ACE in the near future for just that.

REVIEWS REVIEWED! Here is a chart of your reviews in

(1) Never Mind Psyclapse Eugene Lacev 95% (2) The Untouchables

- Laurence Scotford -(3) Darius The Edge
 - Eugene Lacev 22% (4) Iron Lord Ubisoft
- (5) X-Out Rainbow Arts Eugene Lacey
- 80% (7) Conlict
- 16-Bitz Laurence Scotford (8) Bad Company Logotron
- Eugene Lacey 79% (9) Operation Thunderbolt Eugene Lacey

(10) Mechwarrior

Why can't you print more reviews as good as the Never Mind review and not like the pathetic Beverley Hills Cop one? I would like to congratulate

you on your war games special, I found it very interesting. I agree with John Wood's letter (issue 29) that each review

should have two comments instead of one. Gerred Blyth, Bath

P.P.S. Anyone wanting to join the

Save the Blue Smartie Foundation phone 100 and ask for Freephone Blue Smartie Ltd.

Thanks for your constructive criticism - I'm sure that a number of software houses will be quite pleased to see the tables turned for once. As regards two comments in reviews, see our reply to Mr. Wood's letter. We haven't entirely ruled out the possibility of trying this at some stage in the near future, however.

COUPÉ CAUTION

Before I start I must congratulate puter magazine currently available. The many articles present a varied, interesting, and unbiased magazine. I am also glad to hear about the new features which are the SAM Coupé. By the time you receive this I will probably have recieved my new Coupé, but after

PRIZE

ETTER

hearing about other people's concern for the Coupé I felt I must put pen to paper The SAM Coupé seems to be

an excellent and awesome machine, but will it be fully exploited? Many companies have promised to support the Coupé, but will we be seeing software from the predominantly 16/32 bit software houses?

The 256k memory should allow far larger and more complex programs to be converted to the Coupé, and it would be good to see high profile classics also con-

Let's hope that you will review and preview the Coupé's software. I will still buy ACE because of its superior, mature journalism and quality articles. I would be interested to hear your response as I view your responses as good advice that I can trust. Jason Smallwood, Yorkshire

Thanks for your praise - we are glad you are enjoying the maga-

zine so much. If you check out the pages this month you will see that some of our promised new features have already been implemented - more are on the

I can understand your concern about the Coupé, but to be perfectly honest with you, it is

not really possible to predict exactly what the response to the machine will be like. The first thing to bear in mind is that the machine's Spectrum compatibility means that there are literally thousands of extremely good games already available for the machine, and many more being

released each month. Of course, if you wanted a Spectrum you would have bought one, and not a SAM. Software specifically written for the machine is not likely to be in evidence (apart from MGT's own packages) for some time. Most companies will probably wait to see how sales of the machine take off before they commit themselves. When that software does appear it is more than likely going to consist of existing Spectrum titles which have been souped up to take advantage of

the SAW's advanced features. In short then, you haven't got yourself a white elephant, but you are probably going to have to be patient as far as software support is concerned.

THE TEXT ADVENTURE IS DEAD...

Laurence Scotford's comments in the opening paragraph of his Future Wars review Ossue 28, p.55) were "...the text adventure seems to have finally died a death...". The keyword there is finally. I can just see the massed ranks of arcade reviewers dancing a jig around the office.

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Then he goes on to cite Level 9 as an example of the death of adventures! Level 9 have from time to time spoken about their writing arcade games. Their moving away from the genre is for their own reasons, not simply because of the "death" of the text based adventure.

Magnetic Scrolls and Infocom's illustrations are head and shoulders above the graphics of Future Wars, and coupled with the text, create a much better atmosphere.

And simpler, more sophisticated interaction? The joy of a text based adventure is finding out how an object works, not simply OPERATE-ing it from a menu!

I'm sorry to Delphine/Palace if I'm appearing to be hard on Future Wars. I'm sure it is a fine game. What I'm protesting about is the feeling that computer software must gravitate towards the centre. I can only hope this letter will start a debate as to what kind of industry we want, whether we own peculiar divisions of style, or whether we wish to follow the doc-

SHORT 'N' SWEET

A few of the best zany bits...

The man with no name

Simon Howard, Cornwall

Twelve year old genius?

Chao... what? Shouldn't you be reading New Scientist? You do? Oh... ok!

Matthew Kearsey, Gravesend

Paul Navior and Nevil the Egg. Mansfield

The Big 10!

Mark Russell, Southport

trine of "one style, one product, one customer" Martyn Westwood, Interactive

Technology ·Firstly Martyn, I think you do reviewers a slight disservice to imagine us leaping about the office celebrating the demise of the Text Adventure, My comments in the review were intended merely as observations - not as a personal expression of

relief, I agree with your comments on the qualities of textbased games (I have enjoyed many myself), but I also feel that games like Future Wars have opened up the genre to a lot more people. What do other readers think?... Meanwhile here is a lament for Level 9.

...LONG LIVE THE TEXT **ADVENTURE!**

What a disaster! Level 9 is about to bury their much praised textadventures! Adventures with great plots are selling adventures! How about trying a different approach

Jay Lee, The Netherlands Jay, we couldn't agree more. Having said that we anxiously await Level 9's future arcade style releases.

SINGLE-SIDED BLUES

Don't you think it is time that someone, either software companies or magazines, found out how many single sided disk drives there are still being used on the

As the games get better and are taking up more disk space it is now leading to unacceptable levels of disk swapping. Surely by now even those people with single drives have

upgraded to a double drive. If the software companies made their programs on doublesided disks they would save thousands of pounds on blank disks, and may be able to bring the price

of the software down because of I bought a copy of Police Quest II and it had three doublesided disks in it and a note from Sierra asking the people with sin-

gle-sided drives to send for six single-sided disks - now doesn't that sound a better system.

P.Hall, Harleston

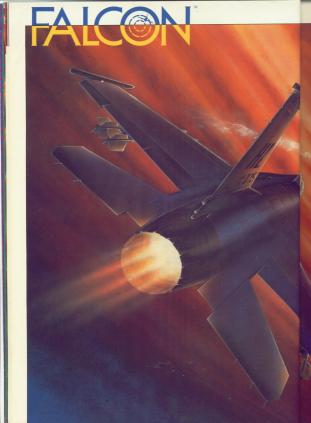
I am sure that there are many, many ST owners who sympathise with your points. Almost every month we look at software which is ruined by the amount of disk swapping that becomes neces-

You might be very surprised, however, at the number of singlesided STs that are still in use. Remember that it costs at least £60 to upgrade an internal drive - and that is if you buy the cheapest available unit and fit it yourself.

Yes, Sierra's system is quite a good idea, but think how frustrating it would be for singlesided owners to have to do this every time they purchased a game.

Unfortunately there is no easy solution to the problem, so it looks like both camps will have to grin and bear it.

Advanced Computer Entertainment 15





Red-hot Hell

- NEC SECRETLY UNVEIL NEW HAND-HELD PC ENGINE
- OPTICAL TECHNOLOGY POISED TO ARRIVE ON CONSUMER SCENE
- CONSOLES DOMINATE SHOW FLOOR
 COMMODORE SHOW NEW AMIGA
- BEHIND CLOSED DOORS

t carriers are feel fal offernew decade, manufacyou have turers from around the world gathered in the world gathered in Las Vezas to announce

Las Vezas to announce

the latest, greatest, smallest, fastest,

largest, noisiest goodies for the technofreaks of the '90s. John Cook

survived to bring you this report...

Michael Jackson hits the Segstand



what's Consumer Electronics' Pretry simply, if Dixons sell it - it probably qualifies: Telly, video, Audio, Cameras, Office Equipment, Keyboards.....and Computer Software and Hardware. And it's big, BIG business - with total over the counter sales of about S43 Billion in 1989. That's a lot.

Of that, around S3.4 Billion was accounted for by the home video game industry. That sounds none too bod until you realise that S2.7 Billion of that was generated by the Nintendo system alone. The balance of the figure is made up of Sega and Atars ROM based sales - with entertainment software on floopy for other systems comig in at around the S300 million mark.

On the face of it, that's enough to send the average Advanced Computer Enfertainment consumer heading straight for the sick bag -I mean, who the hell takes the bog standard Nintendo seriously as a stateof-the-art entertainment machine? Judging by CES, everybody does. Nintendo drove

home its dominance in this 'market by occupying minors half of the available space in the West Half of the convention centre, where all the entertainment obstitute enhances here housed, the next loggest stand being that from Segs, followed up by that from NEC. Followed Segs, and the standard standard suggle Rolf rades, or at least half what it should, the meaning the standard standard standard of one US software company, 'houley around here, you wouldn't think home computers existed!"

Super Mario Bros XII in years to come? Whatever hap-



pened to innovation, technical excellence and hoopy graphics and sound, you might ask? Well, the underlying message for those with their ears to the ground at CES was not as pessimistic as it might first appear.

The consensus is that optical disc technology -

CR Rom, etc. - are going to revolutionise the home entertainment sector. But not just yet. The ooly home machine packing a CD right now is the TurboGraffs, but there are many others on the verge of release: the Philips CDI system for starters, several MS-Dos systems aimed at the home market, push en eignate is Armga with a built in CD Drive, unveiled by Commodore to selected developers (i.e. anyone who cared to turn up) behind firmly closed doors.





Super Monaco Grand Prix on the Genesis shows off the power of the system as constincingly as the coin-op original showed off Sega's increasing technical dominance of speedy 3D routines.

Only a fool (and they exist) would maintain that machines such as these will not make a huge inpact in the home market - with 600 MBytes to mess around with, you can store a whole bunch of very hires graphics and CD quality sound that cannot fall but impress Joe Public Whose letter appears elsewhere in this issue.

NINTENDO

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Grafox, ease -

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Nintendo rules, OK? That was the message that was brutally armined home at this show. Nintendo estimates to have sold around 25 million NES machines Nintendo Entertainment System) in the US in just over three years. It's in 22% of US households and intends to increase that figure to 23% by the end of 1390. The company is spending \$30 million in advertising in the first half of 1390 ulone, to that enter shall display outper.

The NES is simply a phenomena, which with the immediate success of the Gameboy, might well

There was much new software for the Nintendo and it was generally agreed that the standard of programming and graphics had improved significantly over the past year. What disappointed many, however, was the lack of imagination displayed in the majority of the titles. How many variations on Super Mario and Castlevania can there be? The answer is - a lot.

There is more sophistication at the higher end of the Nintendo ROM market, however. Games šuch as

PORTABLE ENGINE SHOCK

Behind the scenes NEC was displaying the big shock of the show: a hand-held version of the

In a private meeting with selected develop ers, the hand held was unveiled, in full workin order. It undoubtedly blows away all oppositio presently around.

across. True hand held size - about 9x4 inches Full resolution screen - a true 400x240 displays - which would convert to a portable TV with an optional tuner attachment. And the most interesting news of all -fully compatible with existing PC EnginerTurboGrafix software.

The downside? Battery-life, at present on three hours. Price? No announcement - but you'd expect it to weigh in at well over \$200. Timing? No announcement of release data.

But it's there, it works – and must be scaring the hell out of Atari. It's also interesting to note that NEC are now the only videogame producers with a system that works in the arcades (there exists a JAMMA compactiel board for the PC Engine), is on home console and is also a hand-held.



Final Fantasy - an RPG with battery backed RAM in the cart, so you can save your game position. Shadowgate - a hit on 1.6 Bit for ICOM Software - has converted surprisingly well......rather better than Cinemaware's Bocket Ranger.

The UK team who is the big daddy of Nintendo development worldwide - Rare – were also in evidence. The company that was Ultimate Play the Gamer and mysteriously dropped out of the home company market at the top have programmed around 40 Nintendo titles since, all for third parties. The guys must surely rate as the smartest (as well as richest) of all UK software publishers and developers alike.

Even beyond video games, Nintendo is firmly embedding itself into youth culture. There's a hit live action adventure/comedy series "Super Mario Bros.Super Show' airing on 135 stations in the US,



plus the animated Captain N - The Game Master' There'm movies featuring the Niferedio - The Ward being: the most promient. You can eat Nimend being: the most promient. You can eat Nimend benadistar cereal, wear the Nintendo save shall halts, coats and jeans put on the Nintendo sispens, halts, coats and jeans put on the Nintendo sispens, crink out of the mugs, cups and thermos flasks, sit on the Nintendo furniture and tell the time by the Nintendo clocks.

There's one thing for sure. When Nintendo decide to make the step over the Atlantic with the NES and the Gameboy - rather than the fragmented toe in the water approach taken at present - we aren't half going to know about it.

SEGA Of all Nint

Of all Nintendo's competitors in the U.S. Sega look like they have got the best act together here and now. With superior hardware in both the Master System and the Genesia, they are hoping, at the very least, to coram off some of the Nintendo market. Margin down the Master System to 570 retail can only be a step in the right direction.

The real hopes for the future are undoubtedly

Out on the town at night - make sure you don't drink too much, or you might get eaten by the tigers in the lobby of the hotel.

In the last quarter of 1989, the Gameboy produced more revenue than the whole of the

the whole of the videogame industry in 1985. One million hardware units sold, three million carts sold. 5 million Gameboys are expected to be sold in 1990.

Wings from Cinemaware turned a few heads at the show, mixing sprites and 3-D vectors in a novel fashion. It'll be out on Amiga in May, with IBM and ST version following on.

Into the dogfight in Cinemaware's Wings (running on the Amiga).





New World Computing had a funtitle on the Amiga - called Nuclear War. With strong cartoon graphics and a sany theme - all based around a 70's card game - it's not to be taken at all seriously and looked like a bunch of fausoha.



pinned on the 16 Bit Genesis, now with over 350,000 Amember this? occur and the ball pinner ways than one. units installed in the US. All Sega needs is the software base to show the machine off, so it's working on the solid base of its own arcade hit titles - such as Golden Axe and Super Monaco Grand Prix - and a sprinkling of strong licences; Spiderman, Dick Tracey (soon to be a Warren Beatty/Madonna hit movie) and Moonwalker

In Genesis, Sega have the most highly specced videogame unit on the market right now, only history will tell if they can even begin to overturn the Nintendo monolith with this performance advantage.

The TurboGrafix-16 (or PC Engine) is beginning to become a serious contender in the videogame market. In a large booth it was proudly displaying an extensive range of new titles, many of which had not been seen

NEC's big launch (apart from the portable Engine see separate panel) was the announcement of the CD-Rom player for the PC-Engine. On display was Monster's Lair with a boppy CD sound track - but more interesting was the Cinemaware production of It Came From The Desert, which will overlay live video action featuring real actors with computer graphics in a CD version of the game.

Cinemaware can integrate about 20 mins of video action in with the existing game - and the initial effects looked very interesting indeed. On a separate tack, Cinemaware are also contracted to produce the whole of the TV Sports range for the PC Engine - taking advantage of the multi-player capacity of the machine. Five player TV Sports Football? Yum!

The NEC CD-Rom is the first optical product to make a big splash in the entertainment market - the industry agrees that one day, all games will be made this way - but isn't confident that the PC Engine in its present incarnation is the hardware platform to take it all the way. But it's a leap forward and congrats to NEC and Cinemaware.

The fat cats of Atari had elected to take a suite at the Mirage Hotel (complete with white tigers in the lobby). away from the show floor. There, it was strongly push





LIKE, WEIRD, MAN

CES isn't just about computer games, of course attending the biggest jumble sale on earth - with



ucts. Here's a hint to what it's selling - "Finally

The 520STFM was relaunched at a new lower price of \$500. Regarded as dead by the game publishers, the ST needs this boost to give it any chance in the US marketplace.



do developers - this is an inten



Big sounds for Geoff Capes – who else could lift this by 3' monster? is a black box that fixes onto your VCR and will play a tape of positive reinforcers onto the TV.

You can control how often the messages are flashed up - indeed you can adjust is so the frequency is just below the conscious-threshold. Now it looks like you're watching normal TV - only, say Gateways, your subconscious is being bombarded with positive messages and/or images of user recipion.

Don't giggle. When subliminal advertising was tried out in US cinemas in the 50's, it result ed in vastly increased sales of cola and popcome even though the audience didn't realise what will print on Special high.

TUNE IN, DROP OUT

Much aller is the MC2 which comes as a kind of New Age walkman. Imagine a walke with built handles. Shadies that block out the light from outside and generate patterns designed to relax you Combine that with some far out synth music coming at you through the cans and you got the idea of MC2. I have no idea if this does you any good or not, but wasting towns of execs sitting around in dock claims, sut turning in and dropping out has



This little box can take control of your mind and it you into drooting slave to technology. That's the tenophobic size. Gateways, however, reckon it's '...t' was absented audio visual subconscious program using in the world.



Vision can be visible, obscured, or completely invisible



ing the Lynx hand-held with reports of very promising test marketing in the New York area around Christmas, with the full allocation of 70,000 sold.

Tramiel claims they'll sell another million in the next year. It's fair to say that the industry is sceptical. Being the only colour handheid was a big pars - now NEC have spoilt that (deliberately and quite savagely) with the borus of, on launch, having an established software base of PC Engine software.

Is anyone going to shell out for a Lynx knowing that the NEC machine is around the corner? More likely, they'll buy a Gameboy while they await developments.

COMMODORE CD-ROM

Commodore was giving nothing away at its modest show floor stand, but in the depths of the West Hall car park, tucked away in an unobtrusive prefab, software producers were being shown a major development of the Amiga.

Basically, rumour has it to be an A500 with a dif-

ference - out goes the keyboard (as an optional extra), in comes a CD-Rom drive. This drive allows you to read CD discs, complete with a capacity of 550-600 MBytes of data. That's equivalent to around 700 normal Arriga floppy discs. And you could almost get a Sierra game on that!

Expected to be shipped in Europe first, later this year, this is an exciting development of the Amiga. More details as they trickle out.

COMPUTER SOFTWARE

OK, so the show was dominated by consoles, more consoles and yet more consoles, but there were still the odd frw people out there on the show floor doing it how we used to - on floopy.

The long, long, long awaited Harpoon from 360

Pacific finally made it to market - and looks the finest strategic level simulation to date. Out now on IBM - to be on ST and Amiga in the fullness of time. Best PC Graphics of the show had to go to Lucas-

film, and the job they/ve done on Loom, but in all, it wasn't a great show for entertainment software on floopy. As it goes back to lick its wounds after the pounding by ROM, expect it to come out fighting in Chicago in June!



30% of Gameboy users are over 18 years old, half of that over 25. There's an almost 60/40 split

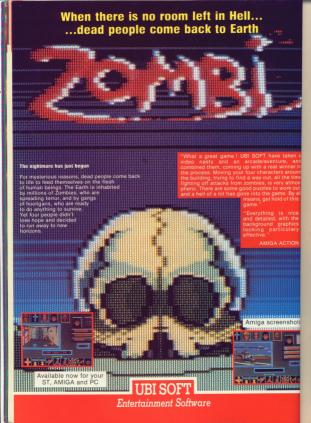
between males and female here too. An avalanche of software is being developed to cash in on that base - from bog standard Invaders, to complex NFL Football games.



Final Fantasy on the NES (with battery backed RAM so you can save games) is a step in the right direction for ROM software designs, but you lose out on the graphics com-

Remember Last month's Billiter End place, in which Steve Frankin of Correndore and the company had a secret weapon against the Japanese? The answer could it is in a remove remarking from the capta's about the existence of cartridge software for the existence of cartridge software for the Call this Commodor's answer to Ninhendor's Plagin software for the 647 Now that'll be interesting it it's true.

Shooting live action for Cinemaware's It Came From the Desert on CD.



Digital Bat Fantasy



If it's printed in red then you can find out more about it in our Hyperguide on page 57. Just look for a box with the same title as the high-

Betman Digital Justice C 1989 D Comics Inc. All Rights Reserve

> Welcome to the entertainment medium of the 21st

Century! Rik Havnes flies to

enshots

New York for an exclusive ACE inter-

view with the creator of the world's first

interactive comic

epe Moreno is a 35 year-old Spanish born artist working and living in a crack-dealing neighbourhood of Marhathan. Not content with creating the entirely computer-generated Bathan Digtal Jastice come book, he is now using the books digital data to produce the first interactive hypercomic.

HYPERACTIVIST

Moreno is totally absorbed in the possibilities of high technol-

ogy and its application in the mediums of art and entertainment. "I'm more a futurist than an artist. I sell the future to corporations," evaluains Moreno. "I've been after hypermedia for years, the idea is to finance the Batman Digital Justice hypercomic as a concept project."
"We're trying to bridge the comic book market and the

were using to protect the comic book market and the computer game market — we hope to make this an industry of its own. I have no problems with competition but nobody else is doing this. Everybody knows it's going to happen but the market isn't there yet."

The Batman Digital Justice computer-generated comic book and hypercomic project was started about 18 months ago when Moreno first entered negotiations with the holder to

the Batman rights, DC Comics, part of the giant Warner Bros. corporation. But why Batman? "Batman is a very strong cultural icon with international appeal. I chose him because I wanted to reach the mass market. Batman's hype will establish the technology a lot

"My plan is an overall tactical strategy. The use of a computer was a conscious decision because it's all digital data, and digital data is very easy to manipulate. I'm an integrator – combining separate elements into one workable system."

COMICS ON SCREEN

The traditional comic book takes about six months to develop, Batman Digital Justice took 18. "The way I portray the story is in a cinema-style which has more atmosphere than a normal comic book. More like movies on paper."

The Batham Digital Justice hypercomic is pitched between passive and active user-interaction. "Too many computer games rely solely on competing, time-stellag characters and moistaing solely with the hypercomic and moistaing solely with the hypercomic active properties and subject to the hypercomic active properties and subject to the hypercomic active properties and some or nowle to build or development of interactivity and the user's access to all manner of information through the dispersion of the size of a dispersion of the size of the size

"Cyan's Cosmic Osmo hypergame on the Macintosh was fully interactive but didn't have much atmosphere to it," states Moreno.

The first versions of the Ratman Digital Austice

sphere to it," states Moreno.

The first versions of the Batman Digital Justice hypercomic are being developed for the Macintosh and PC micros on CD-ROM. "The Next machine is the ideal machine for my work because it already has the

"Gotham Megatropolis Sometime into the next century. Welcome to future land! Take a ride on the progress express. Around you is an apparently perfect world - but this is a 'make believe' world with vengeance, a world with no soul and a heart that beats in binary code. One or Zero - God or the Void. A complex and wired world dominated by a tyrant code. A computer rus from long ago that has become the world's first Digital Dictator.

The only hope is a myth from the past, from a time of legend and superstition, long ore the virus ues. A new kind of o, a program of clean' code and pure nory, a program en by a legendary me fighter... A digital ro, one that can restore digital truth – Digital Justice"





"I hope there's some body out there trying to beat my ass - that would be nice."



internal player," but Moreno will cater for any machine capable of handling a CD device - if the demand and potential market is big enough. He's also interested in the new CD version of the Commodore Amiga launched at the Winter CES Show (see page 18 for a full show report).

The Macintosh hypercomic will be complete within six months. Moreno is currently developing a Hypercard application to drive it and is also working on its audio and animation aspects. "I don't know much of the core technical stuff, I act as a kind of director. We're going to put in various soundtracks and soundeffects, and animate various parts of the images. You'll be able to freeze it any time and go backwards or forwards through it at will. There will be different areas like the Media Tower and Mayors Residence to give you a proper feeling of where you are in this fantasy universe, Instead of speech bubbles, the characters will speak with dubbed actors voices and the hypercomic will be language independent - it will contain three of four language tracks for English, Japanese, German. French or Spanish."

There are also plans for a CDI version of the Batman Digital Justice hypercomic, "as soon as Warner



those CDI units over here. I'm also in personal contact with Sony in Japan."

SEX, LIES AND CDI

edia is where it's at." enthuses Moreno. Imagine an electronic hypermedia version of ACE magazine. You load it up and see the cover. This cover may have a little bit of animation to bring the point of the cover or articles to the fore. You go to the content pages. You click on the Japanese icon - the text is all translated into Japanese. You click on any article you like. Maybe it reads the article to you or scrolls the text in a window. You can read the article







ing the

you or



THE BOHEMIAN TECHNOCRAT

while simultaneously accessing other articles for cross-reference. You click on a photograph and a live video comes on or a playable demo of a game starts. There is so much video footage these days which doesn't get used. You could be connected up to a worldwide network for real-time updates or communication with other users. The potential is limited only by the imagination."

"This stuff is happening already, they used Hypercard during the last elections. There were so many candidates and mass of related information that an TV anchorperson could easily make a mistake during a live broadcast. So they put all the candidates data into a Hypercard stack. You could click on the name and it would bring up what that candidate said in their last speech or TV appearance."

"People who have the money already use hyper-

DIGITAL ART

Moreno proudly proclaims, "digital is the art medium

"The essence of art is to communicate and motivate society through whichever medium. What you want as an artist and where your imagination takes

"You're on your oun not trusting anybody that's how breakthrough's come about."





market will bear - it's a very important and difficult balance. Digital is the best medium to maintain the quality of the original concept throughout all the creative and manufacturing processes of producing a consumer product."

"I act as an art director and the computer does all the labour. I've become a better artist, with greater effect. It takes twice as long to produce art on a computer, but the results are like it took twenty times as much. If you're a methodical person you can cut the time in half."

"The good news about digital art is that it's sneaking behind the censors. Comics have a heavy censorship burden to bear, they're perceived by the Americans as pure kid entertainment. If they include some adult content people think you're trying to pervert kids. We're trying to break the norm - giving it a broader appeal. We can can do this today because computer generated entertainment is difficult to control. But what about tomorrow?"

FUTURE SHOCKS

In the future we will develop the computer-



"Are you going to ignore the art medium of the next century?"

CANVAS OF THE 21ST C

"I use a great deal of art programs, with about four specially preferred packages. My approach is to use a suite of commercially-available off-the-shelf software tools. The bottom line reality when you use the Macintosh is that no one single program can do it all." "I hope to encourage software developers to cre-

ate the tools to keep up with me."

The Batman Digital Justice comic book has 114 pages with 88 pages of storyline produced from 200Mb of clean data. Moreno started with the traditional thumbnail sketches to illustrate the story. He then used 3D modelling programs - Adobe's Super 3D and Pro3D - to create the buildings, machinery and backgrounds. Human characters were drawn on paper, scanned into the Macintosh, and touched up using Letraset's Image Studio. EA's Studio 8 was used to combine and colour the images. The pages were laid out on Ouark XPress - ACF also uses XPress to lay-out all the editorial pages. Grupo Anaya's colour-separation software was used to produce the film.

"I originated the data on its own, basically each panel is a painting. The foregrounds and backgrounds are created separately, then assembled into panels

















"An 88 page story used to require 88 pages of artwork. With resolution independence, which came in at the later end of the Batman Digital Justice project, we could make the book go from 80 pages to 88 pages and have all these additional things on top of cinematic ploys like close-ups of eyes and establishing shots. Because you have the same data, you can travel around camera-wise. Nowadays if I wanted to do an 88 page book, I would only do 40-60 of raw data which could then be manipulated in a variety of ways. The art is rendered with detail. One panel could turn into five by focussing on individual details contained in the original image by establishing shots, close-ups, etc. Moreno uses \$60000 worth of hardware to create

his works of digital art, including two 8Mb 24-bit palette Apple Macintosh II computers with shared data file link via Apple Talk, Mass Storage 45Mb removable hard-drive, b/w and colour scanners, laserprinters and a RasterOps colour monitor. The Batman Digital Justice data, including backups, fills 10 45Mb removable hard-disks. Moreno's constant upgrading and investment in

new software and hardware does ultimately pay-off though, "if I were to do a sequel to Batman Digital Justice it would take me half the time...



DO ARTISTS DREAM OF ELECTRIC SHEEP?

"My friends and I are going to turn my flat into an electronic publishing multi-media studio. I want to

"I don't care how long it takes or how much I burn myself to death. I'm going to do this product."



FROM ENCORE...

Spec. Cass. 2.99

C64 Cass. 2.99 Ams. Cass. 2.99

Release Date 7.3.90
© 1988 Elite Systems Ltd.

IKARI WARRIORS

Spec. Cass. 2.99 C64 Cass. 2.99 Ams. Cass. 2.99 C16 Cass. 2.99

Release Date 21.2.90
© 1986 Elite Systems Ltd.
© SNK Corporation 1986

WONDERBOY

Spec. Cass. 2.99 Ams. Cass. 2.99 C64 Cass. 2.99

Release Date 26.3.90
Tm & SEGA 1987
All rights reserved
1987 Activision Inc.





Elite Systems Limited Anchor House, Anchor Road, Aldridge Walsall West Midlands

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o create o 24-bit ed data movable ters and tal Jusmovable ment in pay-off Digital

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LOST PATRO

As OCEAN goes on a 'search and destroy' mission in Vietnam,

Rik Haynes volunteers for a special

recon preview

une 1965: a US helicopter crashes in the remote central highlands of Vietnam, leaving only seven survivors. They have little food or ammunition, no radio, and need to find a way to cross 58 miles of a wilderness that is alive with enemy soldiers and booby traps. That was the good news, the bad news starts here...



y dangerous soldier fresh

or get dug-in

OST P ✓ Your squad's

Lock 'n' load, let's head-out. The US 5.56mm calibre M16 assault rifle weighs 3.73kg and has a





Light back pack Ammunition belt

Black 'pyjama' suit

om lorry tyres -

NAM'S HISTORY OF HORROR

After World War Two, France attempts to reestablish rule over its primary indochresse colonies of Cambodia. Lass and Vietnam.

- Ho Chi Minh, the leader of the communist forces in Vetnam is
- . By 1954 the American's hear 78% of the rost of the French was
- · Vetnam is solt into two by a Demilitarised Zone (DMZ) along the

- . During 1962 US military strength in South Vietnam grows to
- In 1964 the VC kill and abduct over 11200 people their
- The US begins a "strategic" bombing campaign in North Vet-
- The North Vetramese begin The Tet Offensive during the Lunar
- · American deployment peaks in January 1969 with 542000 US
- In 1970 the number of reported drug cases in the US forces
- On April 30th 1975. South Vietnam's powersment surrenders Advanced Computer Entertainment 29



■ Is this a locable old granny or



HUEY



A If the tide turns against them dur-ing a battle, the VC can hide their apons and simply merge with AGONY UNCLE

The rules of the Geneva Convention are so blurred and mistreated as to be unrecognisable during the Vietnam con

So much for winning the Bearts and Minds' of the Vietnamese people - just blow a few away to get what you want



■ Easily the best part of the game: the sniper arcade sequence with innovative magnifying telescopic sight

TOUR OF DUTY

The Night belongs to Charlie

Agent Orange

The US Marine Helmet band







Nour men are demoralised and disgusted with your leadership. All you'll get now is a 'fraging' (your awn troops will assassinate you with a fragmentation grenade) and a corpse-class flight back to small-town America in a body-bag.

COMPETITION

GOOD MORNING VIETNAM

Here's a once in a lifetime chance to snatch up some recent 'Nam videos. together with your very own Video Cassette Recorder

Of late there has been something of a revived interest in Vietnam. The United States seems to be finally coming to terms with the full horror of the war it couldn't win. A whole spate of movies Full Metal Jacket, and Stone's Platoon have attempted to exorcise the ghosts of Vietnam that still plague the conscience of the American

There have also been a number of computer games based around the events in Vietnam. Ocean were responsible for bringing us the superb Platoon, based on the film of the same theme with the impressive Lost Patrol. (See our detailed preview of the game on pages 28 to

Ever since the company's inception, Ocean from Coppala's Apocalypse Now to Kubrick's has gone from strength to strength. As a leader in the 8-bit market Ocean were quick to take up the challenge of producing equally impressive 16-bit software (although they have never forgotten their commitment to older machines). Recent well-recieved releases like Batman and The Untouchables, as well as adventurous titles like Lost Patrol are an indication of the continu ing growth of one of Europe's most repected



ALL YOU HAVE TO DO

answer the simple questions below. They are all intended to test your knowledge of 'Nam movies, but to give you a fair chance we've given you a choice of three answers to each

Mark your answers on the back of a postcard, together with your name, address, and telephone number. Send your completed post-

ACE VIETNAM COMP. PRIORY COURT 30-32 FARRINGDON LANE. LONDON, EC1R 3AU.

1. Who was the star of the film Apocalypse

a) Charlie Sheen b) Martin Sheen c) Emilio Estevez

2. Who starred in the film Platoon? a) Charlie Sheen b) Martin Sheen c) Marlon Brando

3. Who said 'Good Morning Vietnam'? a) Chewy Chase b) Steve Martin

c) Robin Williams

THE PRIZES The first name to be drawn out of the hat will win the following goodies:

•A high quality VHS Video Cassette Recorder

•And these great films on VHS format video

•Full Metal Jacket

 Apocalypse Now ·Hamburger Hill

 Deer Hunter Good Morning Vietnam

· Green Berets Uncommon Valour

1. The closing date for entries is 1st March 1990

2. Employees of EMAP or Ocean are not eligible 3. No cash alternative can be offered for the

4. The editors decision is final and no correspondance will be entered into.

Advanced Computer Entertainment 31



SCREEN TEST

ALL NEW PIC CURVE POWER

The PIC - Predicted Interest Curve - is the most sophisticated reviewing tool around. And now it's entered the 90's...

We on ACE know you don't just play a game - you experience it. The newly upgraded Predicteded In

The PIC Curve has been redesigned to immediately give you the info you need at just a plance. To

ing just what you're getting when you make the





UPDATES, READ ALL ABOUT 'EM! Chase HQ and Bomber luck

Ocean and Activision and Ocean's Operation Thunderbolt blasts onto Spectrum - all

PIC CURVES

FUN FACTOR

900+ A classic game

800,899 A sunarh

700-799 Still highly

600-699 The 'fair'

THE ACE REVIEWING SYSTEM

400-499 Problems 300-399 Not only is

200-299 Things are 100-199 ZX81 games

Under 100 Nothing

VERSION BOXES

Rik Havnes was Reviews

Eugene Lacey is one of

anything until we are 100% cer-tain that

CONQUEROR

reviewed the original
Archimedes version of
Conqueror from Superior
and were suitably impressed
- the game achieved a rating
of 931. Now, a year and a
half on, Rainbow Arts have
delivered the Amiga and ST
versions. We put our tin hats
on and tell you how well the
game has travelled.

Way back in Issue 9 we

There have been three impressive tank simulations released of late - MI Tank Platoon from Microprose, Omega from Origin, and now Conqueror from Rainbow Arts. While is is pleasing to note that all of them are extremely good pinces of software, it is also interesting to note how different they are.

Omega is not so hot on the graphics front, but the ability to actually program and design your own automated tanks is the sort of thing that will appeal to the technically minded. MI

Tank Platoon on the other hand is the sort of full blown simulator that Microprose is renowned for. It has the impressive graphics and attention to detail that are characteristic of all the simulations that this house his released to date.

teristic of all the simulations that this house has released to date. Conqueror offers something completely different again. While it to be a lot more accessible to most players than either of the other two simulations. This is due, in part, to David Braben's graphics system, first seen in Zarch, which is used to generate the game's landscape

to generate the game's landscape and 30 objects. This uses a contoured patchwork of cubes to contoured patchwork of cubes to construct a portion of visible land-scape onto which are mapped traditional filled vettor graphics to represent brees, buildings, and tanks. The resulting three-dimensional view gives a very realistic feel as tanks (asoppear behind hills or judder across streams.

There are three busic games.

available at ten possible levels of difficulty, all set in a Second World War scenario. These are Arcade, Attrition, and Strategy. The Arcade game allows you to get straight into play without too much thought. The objective is simply to hold out for as long as possible with a single tank against the computer-compared to the computer-compared to

broiled opposition. This game is useful for practising direct control of the tank, which can be trickly until you've had turned to adjust. The default mode is open and the state of the st

ing on your own you can opt for either an automatic driver or gunner. This allows you to concentrate on one aspect while the other is taken care of by the computer. It is nice to see a thought-ful feature like this being implemented, but I quickly got frustrated at having to

is a technically accurate simulation, it will prove | modify my actions to suit what the computer to be a lot more accessible to most players | was doing.

One extremely good feature of Conqueror is the number of control options available. You can

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from the rest of your force

PREDICTED INTEREST CURVE

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RELEASE BOX Atari St 219.99dk late FEB Amiga 224.99dk late FEB

The map in the Strategy game clearly shows the circular area you must capture and hold

Patrolling a captured target area - the numbe in the top right-hand corner shows how many seconds you have left before you win the game

use almost any combination of mouse and joy stick control that you care to think of. Probably the best option, but one requiring two joysticks. is to have a joystick in either port and to use one to control each of the tanks tracks. This works in a similar way to the old Battlezone arcade game (and indeed the controls in real tanks). In this mode the sideways movement of the sticks is used to control the turret, so you can do everything you need to do without having to take your hands off the sticks.

Once you have mastered basic tank

On the graphics front there is little to distin

select a new tank for manual control on this

Once you are ready for a really meaty game

you can select Strategy. This is similar to Attrition, but there are two possible objectives: complete-

ly eliminate the enemy, or hold a target area for a minute. The latter is easier said than done, since the target area is of quite a wide radius and it is not easy to keep individual enemy tanks

from wandering into The other difference between Attri-

tion and Strategy is the ability to buy and sell components of your force to achieve exactly the distribution of light and heavy tanks that you require. There are also

other options like spotter planes and map fire (which involves heavy shelling of enemy occupied areas) which add to the complexities and possibilities of the Strategy game.

There are some nice features in Conqueror that are peripheral to the main game, like the



low and magenta dots denote opposing tanks

rotating 3D tank displays and stats that can be called up at any time during play. Then there is the ability to pitch German Tanks against Russian, or American tanks and play for either side - that should keep everybody happy.

Conqueror is certainly a very impressive piece of software. To hardened simulator fans I can recommend it wholeheartedly. If you haven't tried this sort of software before then the accessibility of Conqueror makes it an ideal place to start. If you're an out and out arcade fan though there really isn't much here to interest you.



pretty buildings that have been added



shows that the offenders have already fled

----The tank park shows the vehicles that you currently possess whi ranged along the front are available if you have sufficient credit manoeuvres it is time to go on and tackle the

CONQUEROR

Attrition. In this game you have a basic selection of tanks comprising two light, two different medium, and one heavy. Your objective is simply to eliminate the opposition completely. As well as having direct control over one of

your tanks, you can direct the others by calling up the map display and moving the pointer to the required destination. It is also possible to

queror is

. You can

FULL METAL PLANETE

INFOGRAMES import French board-gaming via the micro

WENTION board games to your average up to probably conjure up images of Ludo, Snakes and Ladder, or Moropoly- classic games that almost everyone is familiar with. There are a runther of declored individuals, however, to whom board-games general a while list more than the state of the list of t

for years.

For the average purter, however, such games can seem unnecessarily complicated, the doesn't want to have to plough through a thick tome of rules and then engage in a game which might last a whole day or longer. What he ideally wants is something original with easily grasped rules of play, in which most games will last for two to three hours and no more — perfect for a rainy evening!

There have been a few games to emerge in this country that have managed to fulfill this rôle quite nicely. Risk and Diplomacy being two of the more obvious names that come to mind. In France, one of the games that has achieved a popular status is Fulf Meta? Planete, and it is on that boardgame that Infogrames' micro conversion is based.

The game concerns mining in the far future. You objective is to land your mining Freighter on a planet, and collect as much ore as possible within the time allowed. Naturally enough, there are other parties also intent on grabbing their fair share of the ore, so you will have to



Iron Guts Moria begins to deploy his forces in readiness for the conquest to come compete with them for it. The competition, I

ought to point out at this juncture, is not only for the planet's resources but also for survival. It is permissible for players to not only destroy mining units belonging to opponents, but also to capture them.

The game is played on a landscape com-

prising mountains, level land, swamp, reef, and sea. This is divided into haves which govern the positioning and movement of your mining units as well as the range of your attack/defence

For the purpose of exploiting the planet's natural resources, and defending yourself, you have several types of craft: the Freighter itself, which is used for accumulating ore and craft, and ultimately transporting everything of the planet. Weather Hens for manufacturing new craft, transporting craft and one, and predicting tides; Barges for transport across water, Crabs for transport across land; Attack Boats for

defence on water; and Heaps (large tanks) and Tanks for defence on land. You can also use Pontoons to construct bridges.

The game takes place over beethyfer counts, which are disided into eight phases. On the first tim you must land your Freighter, on the second you deploy as much of your mistle equamont is an area of your mistle equamont is an area of your mistle equamont in the first movement phase in which you can expend five action points, which becomes ten in the next round and fifteen thereafter until the end of the game, in round teachyon you have an early opportunity of taking diff. This can sometimes to



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This is not except on or finous alsoigne, and decision groundless which squares on each according control of the control and control and the c

GRAPHICS 7 IQ FACTOR 8
AUDIO 7 FUN FACTOR 8

be beneficial if you already have a good cargo and might be in danger during the last four rounds. If you continue to play then there are three more normal rounds, and on the twentyfifth round you must leave the planet.

The game would be difficult enough if it simply involved collecting one, and conflicts with offer players, but you also have the bides to contend with. These change at the beginning of every round, either exposing or flooding land. This means that you have to carefully plan your moves in advance or you could end up stranding some of your craft.

For what is an apparently simple game, Full Metal Planete has in-depth gameplay which relies on nothing but skill (there is no element of luck in this game), It is easy to see why the board game has enjoyed such success over the water, and since this conversion allows for all the subtleties of play involved in its tabletop parent then you really can't go far wrong with it. As an added bonus, you can play on your own against up to three computer-controlled opponents, and even design your own logo using the built-in utility (called Full Metal Palette - so much for Gallic humour). This won't be to everybody's taste but if you are looking for something a little different which you will still want to play after one game then I thoroughly recommend Info grames' latest product.





GEORGE Romero will prinbered for his rather graphic zombie horror movies. Despite their ludicrous basis they are quite entertaining and, occasionally, fairly gut wrenching if you are on the squeamish side, like me! Ubi Soft's game has evidently been quite heavily influenced by these films. Supplied with the software

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is a rather crudely drawn comic

The time is the 15th of April 1986 (could this be an indication of the length of time the project has been in development?). For some inexplicable reason the dead have become readimated and are now walking the Earth to satisfy their craving for human flesh. Anyone who is bitten also becomes living dead. After a while only

Get seriously

scarificed by UBI SOFT's horror

uninhabited island. Unfortunatewhich relates events leading up to the start of | ly you don't have enough fuel for a prolonged journey. Your task is to find this fuel. There is, however, a rival group also looking for fuel so you will have to contend with them as well as the zombies.

a few pockets of human sur-

vivors remain - to make matters

worse they have to compete

with each other for the few

available resources they need

to ensure their continued exis-

tion there is a helicopter which

can be used to escape to a

safer place such as a remote,

Near to your groups loca-

The play screen is divided into several windows. The largest shows a three-dimensional

view of the area just in front of your currently selected character. You can collect and manipulate any objects you see by clicking the cursor within this window. This is also used for combat with the zombies On the whole the zombies just pace back

and forth ignoring you, but occasionally they will turn towards you and attack. At the beginning of the game you have nothing but your fists to protect you, but there are a number of weapons which can be collected to afford you more protection. If you managed to shoot a passing zombie in the head there is a satisfying gush of blood before the thing collapses to the floor in a heap.



	RELEASE	вох
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8 FUN FACTOR 2

Movement is achieved by clicking on of the

four arrowed edges of the main window. The up and down arrows are context sensitive, so while they move you up and down if you are on a stairway, they will move you forwards and backwards when you are in a corridor Initially you play with a team of four people.

You can only move one of them at a time, so you must first select the relevant person. Naturally enough, moving around in a zombie infest-

ed area is quite a dangerous occupation, so it is quite possible that one or more of your party will meet with either death or zombification during the early stages of the game What is immediately appealing about this

game is it's atmosphere - you really do get a sense of menace, especially when the moody David Whitaker soundtrack gets going. Lone zombies pacing backwards and forwards are not exactly frightening, but the way they suddenly turn and attack you is a well-executed bit of work. It is also quite harrowing to find yourself suddenly facing a whole horde of hungry zombies. This happens quite a lot if you stray too far from the main scenes in the game.

There seems to be guite a lot to do and

plenty of places to explore in Zombi. The way that you coordinate your characters takes a little getting used to, but this doesn't really detract from the game. On the whole this is one of the more creative and atmospheric animated adventure games I've come across recently and general gamers as well as hardened adventure fans. Worth the wait!

Laurence Scotford



The place: 16th century Japan. You are a Samurai, a warrior willives for honour. Your world teems with opportunities to achieve it.. or lose it. The ultimate honour – to become Shogun and unite all of Japan under your rule – is a prize worthy of only the greatest of Samurai.

Action, adventure, historica accuracy; Samurai advances the gaming genre MicroProx pioneered so successfully in Piratei Available for IBM PC and compatibles.

Unit 1, Hampton Road Industrial Estate, Tetbury, Glos. GL8 8DA. Tel: 0666 504326/504412.

MICRO PROSE

GRANDSLAM tries for Mega micro performance



HEART TO HART

WHEN Sega's Space Harrier first hit the arcades back in '85, its 68000power, 4096+ colour burst and gut-wrenching hydro-cabinent, assured it cult status overnight. Inevitably a flood of micro conversions followed, from Spectrum to PC Engine. Indeed, Space Harrier has become something of a yardstick to judge your machine's audio-visual capabilities by. Enter the 16-bit Sega Megadrive console last year - what's the first game Sega decides to produce on this cyberdeck? Space Harrier II on the Megadrive is brimming over with massive end of level guardian supersprites which move at lightning speed around the screen without any hint of flicker. Now Grandslam has decided to convert Space Harrier II to all major home computer formats (even MSX). An impossible task or incredible achievement?

Gameplay-wise, there's very little to Space Harrier II. You control a geezer who can fly all around the screen, simultaneously pumping out whitehot laser into a 3D forced perspective landscape. As you're doing this, the landscape speeds at you from the distance bringing with it obstacles and aliens of deadly presence - contact with them spells the loss of one of your lives. After you've dispatched a few aliens, you'll

onto ST... and the original Sego

come across a mega end of level alien - who'll visually impress you, while churning out deadly laser blasts at alarming speed and accuracy. If you manage to take out this substantial sprite, it's onto the next level - with added aliens, obstacles and even more frightening guardians.

It's all pretty mindless and repetitive stuff but it is immense fun. Any skills to be had from the game come from remembering the differing alien attack waves and obstacle movement patterns - certainly nothing to stretch the mind to any great degree. But this is a simple shoot'emun after all

Grandslam's Space Harrier II on the ST is so good a conversion, it makes the Megadrive redundant... until Sega comes up with the next generation of 16-bit blasters on its megadeck. The only thing Space Harrier II lacks is depth of gameplay - but that factor has never deterred any Space Harrier fan before.

Rik Haynes

SPACE HARRIER II SPECS 'n' STATS

250K (650K graphics stored on disk, 100K pro-gram, 100K gamemap, 50K miscellaneous)

No. of Adversaries:

Max no. of on-screen Sprites: Max. on-screen Sprite Size: 6 + 2 digitised No, of Soundtracks:

PREDICTED INTEREST CURVE

Amazingly, the ST version runs just a little slow-

pan.

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ror Napoleon it is time to survey the battlefield and deliver your first set of orders. Ahead of

PSS are currently riding on a wargaming glory wave following the release of the highly acclaimed Waterloo. Apart from the overriding hisquality of graphics unseen in any wargame, and the command system was more reminiscent of an adventure, with a competent parser breaking down whole paragraphs of typed commands.

Between Waterloo and Austerlitz the programmer also produced Armada and Borodino for Atari, Although graphically similar to Waterloo, this fact was generally overlooked by wargamers who were all too happy with the new style software hitting them

Austerlitz has also surfaced in much the same vein. The graphics are in the same style as its sisters, and although the commands are different the play system remains the same. Too much of a good thing is all very well, but too



PSS/Mirrorsoft run chronicles Napoleon's greatest riot in Europe, but is battle, against the might of the Austro-Russian army. Naturally

start up - except for a feature which allows you to change the start up orders for each side. So in theory you can start the game with the Russian forces surg ing forward to a rapidly surrendering enemy. With you at the top of the command chain,

Set in Moldavia in the early

you're given the choice of which side to play.

options are apparent at the

Most of the standard

all orders are issued to the divisional generals, who in turn pass the orders on to the respective platoons. It sounds complex, and it is. Because of the historical edge it takes quite a time for orders to be carried out. After all you're a hundred and thirty years short of the walkie talkie. While sometimes frustrating when a division is being hammered, it does allow for some well timed cavalry charges.

If you've had no experience with this system before, the way commands are issued can prove frustrating. Orders like "Bessieres, take support from Bernadotte and form a defensive around Kobelnitz" will always confuse the

Despite all the glamorous extras Austerlitz still plays like any of the bland 'old style' wargames, which came as a surprise to me - it looked as though it could have been a case of all graphics, no gameplay,

Attention to detail is excellent. The manual contains a full background as to how this particular battle came around, what happened during

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PC	£29.99dk	OUT NOW



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AUDIO N/A FUN FACTOR

the battle, and who did what in the aftermath. Extremely useful in planning which route not to take in order to come out on top. It's attention to detail and ability to follow the battle to it's outcome that produces the atmosphere. You can fight the battle just the way Napoleon fought it, or not for a completely different approach.

For all the good points there's one real factor that weighs heavily against Austerlitz; the lack of variety between it and its three predenessors. Once vou've played one vou've got a good idea of how the rest are going to look. A designer option would have helped immensely, it's a pity this facility has been overlooked.

Somehow I don't see this style of wargame having the lasting effect that is common with the popular SSG series. A recommended first time purchase, but if you have any of the others there just isn't any point.

Mark Patterson



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AMIGA	£24 99dk	APRIL 1990

BECOME the Ultimate Biker God. That, and nothing less, is your aim in Harley Davidson. Doubtless long-haired, greasy bearded, pot-bellied, leather jacketed, social deviants are right now beating a tarmac pathway to their nearest software shop to grab a hold of the world's first official Hog Simulator. Talking of hogs, this one IS a bit of a pig.

The program aims to blend arcade action (bike riding style) with strategy as you equip your bike, negotiate the rocky roads of Maine USA. encounter other brothers, and make your way to the great hog trough of Sturgis where your biker endurance will be rewarded. By biting the heads off chickens, no doubt.

You start in quasi RPG fashion by distributing points between various essential biker skills, ranging from engine maintenance to charisma (mainly for picking up chicks, eh what?). You then take to the open road and head for the next town.

The road sequences aren't hard to master. Unlike some bike sims, this one is pretty easy to conquer. As the landscape scrolls by you change up and down your six gears by depressing the control and up-arrow keys simultaneously (joystick is recommended, a mouse option is available but not so useful). Avoiding rocks, puddles, cars and other hazards you carry on to the next town, stopping on the way (if you fancy) to helo a damsel in distress beside her broken down vehicle. You can then (if she fancies) give

HARLEY DAVIDSON

The open road; the throbbing

Harley Davidson between your legs; the girls; the comradeship:

the leather; the heavy metal...

Can a game give you all this?

MINDSCAPE think it can...

her a lift to the next town for a reward (usually

cash, but possibly an item of biker value). Arriving at the next town, you refuel. This doesn't just have to mean refuelling your bike you can also top up your own pleasure circuits by rolling in the hay with the female filler attendant. This doesn't seem to result in anything (certainly not a graphic display) other than a higher bill for fuel. Bikers, it seems, haven't heard of AIDS yet - or at least not in this game.

After frolicking with the good time girl you can choose any of the other options available in town: shopping for parts (ranging from a helmet to a new engine), fixing your bike, and having a good time with the local brothers.

they haven't

Fixing your bike simply involves choosing the part that needs attention (shown on a special status screen that gives you a health barchart for each part) using your maintenance skill. Unless you're pretty nifty (and set your maintenance skill level high at the beginning) this isn't likely to have too much effect. The local brothers, however, have more to

offer. You can include in any one of five events.





The weenie run: disgusting, eh? But then you ARE disgusting, you fat, hairy, slob

each of which offers you the chance to earn money, increase your standing amongst the bro's, and hopefully have a little fun in the pro-

The events range from the finicky Slow-Ride Contest which is probably harder in the program than it would be on a Hog. I know that Harley's (like any big twin) are going to pack up at low revs, but this is ridiculous! Hurt pride took me on to the Drag race, which was a lot more fun and simply involves getting the revs right up before slipping in the clutch. The game lets you kick in first gear at practically any engine speed, leading to wheelies and a generally hairy race against the bro's. Other events include Hill Climb (up hill in low

gear, dodging missiles from your 'friends'): Poker Run (grab cards from bystanders to get a winning hand, preferably without flattening them); and Weenie Run, in which a non-vegetarian lady snaffles frankfurters hanging on strings above the road as you shoot down the highway.

Finally, you can go partyin', which is of more interest for the boost it gives to your energy levels than it is for the Bob Seger tunes.

Mindscape have really tried to pack a lot into Harley Davidson. There's no shortage of wayside attractions at every stage of the journey to Sturgis, but, like most games that try to overwhelm you with variety, none of the elements really impress by themselves. The strategy elements (buying new engines, increasing your standing with the bro's) aren't well-developed enough to compensate for the lack of punch and the arcade sequences are too jerky and slow by modern standards. Like the real Harley Davidson, the game looks great, but once you've ridden it most people will start yearning for a highly tuned Japanese megama-

Steve Cooke

naing towards the evil Borf's ship

SPACE

READYSOFT/EMPIRE

bring Don Bluth's

arcade movie to the

small screen

IT has long been the dream of many people involved in computer entertainment, whether as producers, consumers, or critics, to see the complete integration of film and interactive computer technology. The result would be a film in which the player was the star - the actions he or she might take would affect the way the plot evolved. At present there are movies which can draw on all the magic of modern film technology to create, if necessary, completely new environments. But for all its spectacle and imaginative brilliance, the movie is a closed medium - we have no option but to sit back and let it all soak in.

Computers, on the other hand, are a completely different story. Like the film maker, the programmer is also capable of creating new worlds, but, unlike a film, a computer game is something that we can all participate in - we have the power to affect the outcome of the games we play. But even the most expensive home machines are limited. We can never hope to achieve the enthralling realism afforded by film, or can we?

Animator Don Bluth has certainly made positive moves in that direction even if he has only really managed the first tentative few steps. Bluth's background was, not surprisingly, very much in movies (he was an animator for Disney and is still involved in the production of animated feature film's today), but he also has a great respect for the potential of the computer as a medium for entertainment. His first production in this field, the Dragon's Lair arcade machine, was an attempt to combine the best of both worlds.

The machine made use of traditional animation stored on a laser disc (which was still a fairly juvenile technology back in 1983). The animated scenes were shown to the player who



moment in order to see the hero to safety. Get it wrong and you are forced to witness your rather ugly end, get it right and it's on to the

Space Ace is more of the same, only the plot is more original and the animation is a lot funnier. You take the part of the heroic Ace (what a superb name), in a mission to save your beloved Kimberly from the evil Commander Borf. Unfortunately Borf has managed to zap you with his Infanto Ray which has turned you into your youthful alter-ego, Dexter. In this weakling guise you set out to save Kimberly and defeat that blue-skinned blubber-gut Borf.

You may recall that Dragon's Lair was treated to a series of rather lame home computer conversions which had none of the visual appeal of the original arcade game and even less playability. Readysoft's conversions of Space Ace, you will be pleased to hear, do not suffer in the same way. Both visual and audio content is absolutely superb to the extent that you can't wait to see what the next scene has in store, and the next, and the next... and because you can save your position there is less drudgery involved in doing so.

Again you must view each scene and make the appropriate joystick move at the right time in order to save your skin, but this time there is just that little bit more playability which actually makes a world of difference. You get quite a few minutes of animation on four discs for your money, but what a lot of money it is for what is essentially a very good audio-visual entertainment with a bit of interactivity thrown in.

Laurence Scotford



	RELEASE B	ox
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CTED INTEREST CURV

SIDESHOW BE

LIGHT guns seem to be coming back into vogue these days, if you are a veteran gamer you will probably recall those ancient. consoles with five or six built-in games. On the whole they were variations on Pong, but some machines also had simple target games which involved obliterating a large white blip that bounced around the screen. For the latter purpose a cheap plastic light gun was provided along with the paddles that controlled the other

When the early consoles began to lose out to their more sophisticated counterparts then the good old light gun went into decline too. Recently, however, there has been a resurgence of newer, more sophisticated light guns. Companies like Cheetah Marketing and Amstrad have been busy producing light guns for the Spectrum and CPC (although this is little more than a ploy to keep sales of 8-bit machines as healthy as possible).

The trend has been slow to catch on in the 16-bit market - although you can readily obtain trakballs, graphic pads, light pens and so forth for the more sophisticated machines, light guns are harder to come by. American company, Actionware have now rectified that deficiency (at least as far as the Amiga is concerned), by producing a phaser light gun along with several games that support it. The latest of these is Sideshow, which, according to the manual, they developed as a contrast to the violent themes in their earlier phaser compatible games

This game, as you might have gathered from the title, is based around the sort of fairground events where you take not shots at things in an attempt to win a cuddly bunny that probably costs less to buy than the money you paid to win it in the first place (phew).

There are eight events you can play: Balloons has you popping them to find a hidden pattern; Balls involves shooting at green balls while avoiding red ones; Potpourri is the classic shooting gallery where you can pop off ducks, planes, and so on; Strength requires you to make weights shoot up nosts to hit hells-Knives gives you the opportunity to chuck sharp objects at a rotating clown (actually you're supposed to miss him); Clock Shoppe gives you a chance to get your own back on all those



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since a smashed clock face is likely to p little revenge shooting

annoying cuckoos by shooting them as they appear from their clocks: Haunted Hill is another classic in which you shoot at various spooks and nasties before they disappear; and last, but by no means least, there is the Dunk Tank in which quick shooting will give you the satisfaction of seeing poor Willy get wet.

Although there is a facility within the program to ensure that your light gun is properly calibrated. I still found it very difficult to shoot with any accuracy, even at a fairly close range. This could, of course, be an indication of my abysmal shooting skills, but I suspect that most people will actually experience similar difficulties. Playing with the mouse is a lot easier (and. indeed, the only option open to you if you do not possess the phaser).

You are not free to play any event as and when you wish. You begin with a limited number of tokens and before you can play some of the more expensive events you must win a few tokens on the cheaper and easier ones. Unfortunately it is no good just selecting an event you are good at and playing it until you build up a bundle of tokens, because a booth will be closed if you win it three times.

You also have to watch your hunger level - if this gets too low you'll have to pay a visit to the Food Stand to top up. which will also use up some of your hard earned tokens.

On the whole, Sideshow is a highly entertaining game which will probably appeal to mum. dad, and kid sister as well as seasoned games players. There is a lot of disk swapping, which can be quite frustrating, but this can just about be forgiven considering the variety of gameplay you are treated to.

8

RELEASE BOX



SET PHASERS TO STUN, MEN



There are also a few bonus features thrown in, like random events. Faster Eggs with a secret purpose, and the ability to design your own face for Willy in the Dunk Tank. If you are looking for something a little different that will appeal to a wide age range then Sideshow is definitely worth a look.

Laurence Scotford

CEREBR SOFTWA



reality, an alternative world where I assumed the identity of another



The Middle East Political Simulation
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ncourage their 'fighting cocks' and try out militar adgets in the best of conditions. It is the potentia radie of World War III. CONFLICT puts you in a nd where military and economic forces of mulate the multiple pressures that a nation or is under in a modern nation state. Your ai governments. A frightening and highly rea



TUNTER KILLER

ience the reality of commanding an American Will combat submarine in the South Pacific ster the controls of your vessel, then embark on eries of missions - from 'search and destroy' ties to detailed escort duties modelled on real take place during the day or at night. HUNTER KILLER has a host of features that outclass any



GRIMBLOOD face yourself deep within the walls of Castle

imblood, here lurks a murderer, who is preying he young Earl, Maximus, must uncover the ter othic whodunnit, written by Mike Singleton. turing digitised sound and graphics mising a different game every load!



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the pub getting drunk

SIERRA take the system

and add RPG concepts -

surely this has to be a



ERO'S QUES

had to happen. Sierra, not content with being America's number one graphic animated adventure house, has finally cottoned on and introduced RPG elements into its games. Imagine Leisure Suit Larry, Kings Quest, Police Ouest - all brilliant games - and then add the excitement of creating your own character and building him or her up while you play. Surely this has to be a recipe for unmitigated gamesplaying bliss?

Unfortunately, where Heroes is concerned, the ingredients haven't quite done justice to the recipe. Here goes: TAKE ONE SIERRA ANIMATED ADVENTURE SYSTEM, COMPLETE WITH SUPERLATIVE GRAPHICS AND SIMPLE TEXT ENTRY. No problem there, even if we do have to ignore the usual slow speed of Sierra games when running on anything less than a Cray Mk. 10 or an equally unaffordable 386 VGA PC. Heroes, however, is noticeably faster than the earlier products and the system that gave us Leisure Suit Larry can't

Next: TAKE A GRIPPING SCENARIO. Oops, no gripping scenarios available. The dramatic inspiration that gave us the child slave in Kings Quest III, the desperate Rosella in KQIV, or the absurd Larry Laffer in the Leisure Suit games has obviously run out here. Instead we get a chap who simply wants to be a hero in Spielburg (flattery will get you nowhere, Sierra). Heroes in

much as they should



RELEASE BOX ATABI ST



fantasy games are ten a penny. What we want is character interest, chaps, and there ain't none

Next: ADD GENEROUS DOSE OF RPG ADDED INTEREST. Disaster. The sack of RPG Added Interest is totally empty. Instead of giving us a meaty team of adventurers as in Bards Tale or Ultima, we have a single player character. He cannot recruit anyone and interact with other characters any more than any of the other normal

characters in Sierra games. Finally: TAKE RIP-ROARING COMBAT SYSTEM AND KICK ASS. Are you kidding?? Sierra games have class, not ass. Jettison the rip-roaring combat system and instead pop in a single screen with graphical opponents clumsily stabbing at each other. Invoke a few routine 'dodge' and 'stab' manoeuvres, slow it all down nicely, display graphs of strength and stamina. Forget all about strategy (you can't really have any anyway, since there's only one player character) and forget about action (it's too slow). Finally, make it all rather easy to escape from if things get

tough (they do). All that is, in essence, the story of Heroes, But it's a story with a happier ending than you might have expected. Underneath the RPG pretensions you have another Sierra animated 'adventure cartoon' with superlative graphics, a weaker story line than other recent Sierra releases, loads of puzzles, and a healthy modicum of enjoyment. Forget, therefore, about the RPG innovations as they're not really up to the expectations they raise. The only nice addition is the ability to play a thief, magic user, or warrior which adds some variety and a few minor spells to the scenario. Otherwise, this is standard, but very beautiful, fare for Sierra addicts, who have quite rightly discovered that you don't need sizzling arcade action or mega-sophisticated parsers to make a good game...for those who can afford it.

Steve Cooke





VOTED ARCADE GAME OF THE





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existence of Ness in his struggle against the retribution of Caponel THE LYTOL (HABLES - LIVE AVAMERICAN LEGENI in abolitor coiner of a game, as much and pobled or yet on a properly a carbon consistency of the second of the properly according conversion on the properly according conversion of the properly according conversion of the material carbon consistency of

LAST CHREATHER FOLLOW UP TO LAST CHREATHER'S NO. 1 NIN... THE TATION WITH ...

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USE THE LASERSIGHT

bulletproof vest, but watch out for

It the incredible Taito coin-op conversion









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ENTERPRISE (PC)

A golden olde from Melbourne House (remember them?) which casts you as a merchant space plot. Your aim is to earn enough morey to refire to Paradise Planet. This is done by collecting minerals and selling them to the inhabitants of the innumerable planets in the known universe. As well as building up a fortune you must also insure your ship and its contents, buy food and fuel, and make the occasional repairs.



Once you have mastered the hypertonic jumps and landing on planets you can begin to converse with the aliens. At this point the gamb begins to bear an uncanny resemblance to a very ancient program called Eisa. This was a clever piece of programming that picked up on common parts of speech and analysed them to the extent that it was able to give you apparently intelligent reolies.

What you have here is essentially a poor man's Elite. It has a few nice touches but I wouldn't be prepared to lay bets on its long

ACE RATING: 500

WORLD DARTS (PC

Guen half a chance, bored programmers will spend their time bying to smulate absolutely anglying and everyfining on their favourite machine. The latest victim is the classic game a der in a rather unsteady fashion drifts unicreasing applied parosis the screen. By using the cursor keys you can change its direction but you can even both it still. Once it is positioned roughly where you want it a quick tick of the space but is all that It takes to send the durft by-



The control method takes a little getting used to, but there is a fun game to be had here once you got the hang of it.

ACE RATING: 675

SPEEDBOAT ASSASSINS (Amiga) At first sight this looks and feels a lot like the

old arcade game Road Blasters, only water has been substituted for tarmac. Your task is to libALL FOR A FIVER!

Laurence Scotford looks at

six titles in the new 16-Blitz range published at £4.99 by

Virgin Mastertronic

erate four important harbours that have been taken over by enemy forces. There are three stages involved in achieving this.

First you are dropped off by helicopter and must guide your unarmed speedboat through a narrow channel of floating mines to gain entrance to the harbour. It is easy to do this without danger by going slowly, but unless you take it at speed you will lose a substantial

Next comes the main meaty part of the game which involves you speeding across the harbour taking out mines and various craft. Your weapons can be upgraded by docking with the helicopter (not an easy manoeure when you've got the enemy throwing hell at you'd You must destroy four red communications towers to must

tralise the harbour.

Once you succeed in this it's on to the final stage — blowing up the marine equivalent of an alien mother ship. Hit the battleship twenty to thirty times and you are off to the next target. This last stage however, is so difficult that there is more luck than skill involved.

On the whole a reasonable challenge, but it won't be long before your eyes are glazing over ACE RATING: 650

CALIFORNIA PRO GOLF (PC)

There have been several very good golf games available for a variety of computers over recent years. Leaderboard and Jack Nicklass for instance and it seems to be becoming a popular past time for golf addicts who can't stand the rain. If you're a bit short of cash however, then this is a viable alternative. All of the usual features are lene: both three and how-dimensional texts are lene; both three and how-dimensional took and the ability to control shot power, hooks, and stices.

On the whole (or should that be hole?) this is a pretty reasonable golf simulation for the price.



Worth a look if you fancy a round without leaving the comfort of the nineteenth.

ACE RATING: 700

KELLY X (ATARI ST)

Way back in time when the Spectrum was still one of the best micros to be had, Imagine produced an odd little monochrome game with wireframe graphics in which you played a space trashman pushing 30 objects into a black hole. Kelly X also has you destroying pieces of floating space juint, and apart from the fact that the wireframe graphics have been replaced with solid vector graphics. The two games are



tediously similar (in fact the ancient Imagine effort was twice as playable). Five minutes will be enough to have you reaching for the reset hutton

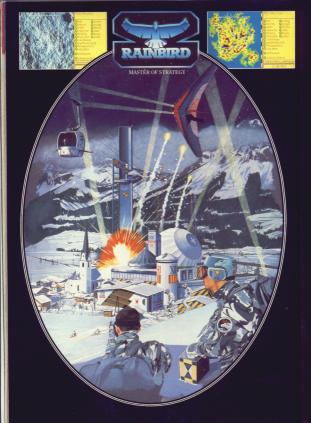
ACE RATING: 390

ROAD WARS (ATARI ST

I really can't understand the thinking behind the re-release of this game. It went down like a lead belloon when it was first released as a full price game, and even at this low price it just doesn't cut the mustand. The game has you speeding down a curved road shooting various rogue items, provided you can manage the unwieldy controls that is. A complete waste of a fived!

ACE RATING: 300





THE STRATEGY GAME

MIDWINTER

OF THE DECADE ARRIVES

As a new Ice Age dawns in Rainbird's gigantic new classic, strategy gaming also enters a new era. For Midwinter is a genuinely original concept that launches revolutionary techniques onto the home computer screen.



accuracy. You control 32 personalities, each with different qualities, skills and complex personal relationships. Enemy movements can be tracked, and battle plans made, using the incredibly detailed on-screen map.

The scenario is convincingly realistic as a new loe Age grips the world. Together with a small group of pioneers you have colonized the Midwinter Isle, a 160,000 square mile land mass now under threat from invaders intent on seizing your sanctuary.



In your bid to defend the lifesupporting heat mines, you can ski, hang-pilde, travel by snow buggy or cable car, snipe and sabotage the enemy. There is no easy way to win, but the game's unique depth and absorbing complexity will keep you trying until you do.

Compelling action and strategy take place across a spectacular 3D fractal generated landscape with its stunning geographical



The deep Midwinter is upon us. Be prepared for a long and exciting battle against its elements.







PRO TENNIS TOUR

SPORT have come and given in recent years although very fee have left more than a very less although very fee have left more than a other games. He problem with sports simulations is that something as fluid and indetermine the companion of the human body is posticle way to be compared to the companion of the first more state the performance of the human body is posticle waggling track and field provide some sort of playand less that of the so other come closest because they at least provide some sort of playand less of the properties of the provided provided that the provided provided the provided provided the provided provided that the provided provided that the provided provided that the provided provided the provided pr

An analysis of the control of the co

Now Ubi Soft have a had a crack at a tennis simulation and come out looking good. P7 Tennis Tour has been selling for some time now in France as Great Courts and going down a storm – TII be very surprised if the same thing doesn't happen here.

Again you are presented with a three-dimensorial perspective level of the court, which works well apart from the apparently hage used of the built when it is at the opposite end of the movement across the court. Shots are played by pressing the fire builton to swaig and our proposition of the court of the court of the proposition of the court of the court of the swaight of the court of the court of th



Where's that ball going? Not where it should be, that's for sure!

The direction of your shot is determined by your shot is determined by your which marks the destination of the ball. This takes a little getting used to, but the system works gute well once you have become accustomed to it. Additionally the crosshair can be switched off by selecting either Advanced or Professional, as opposed to Easy mode.

Serving is also accomplished with the use of a cursor, only this time you control its position. Again it takes a while to get used to this and you can expect to lose a few points through double faults while you are growing into it.

The main part of the game is tournament play which gives you the chance to sample several different surfaces: Casas at Wimbledon, Clay at the French Open, Cemet at the Australian Open, and Cement either covered or uncovered at the U.S. Open. Is tournament play you begin ranked 64th and must play success computer controlled opponents. They play by develop a good technique if you are to stand any chance at all of wireing a match.

Fortunately there are comprehensive practice options which allow you to improve your service, or return balls delivered by a muchine using one of six different programs. You can also select to play against another person using the second jostock port. This does mean that one of you will have to play at the far end of the court, but this is alternated so both players get a chance to play the easy end. As with the tournament, the practice options can be played on

What really makes this particular tensis simulation stand out is attention to detail. Whereis the fine pudges getting feetin neck, or the machine bleeping if the ball state that the parties are not that attractive, but they are realistcally animated. This is easily the best tennis simulation to date and should keep trimbledon tans happy during the writer morths suff they can get the real firing on their screens again. Highly recommend-

Laurence Scotford

Anyone for tennis?

BLUE BYTE are!

covey the atmosphere of the real thing. The sound effects also help enormously in the atmospheric department - even the thank of the ball hitting the ground changes objecting on which type of surface you are playing on.

GRAPHICS & ID FACTOR 3

ABDIO 8 RINN FACTOR 9

The sprites are a little crude even on EGA, but again the anneation can't be fauthed. As per usual with PC garnes, the sound feaves a lot to be desired, but Bute Byte Blow done gate a factor of the sound on the sound feave and the state has been as the can fore usual feature is a menu that allows you to indicate which type of manchine you are naming the game on the sound feature is a menu that allow you to indicate which type of manchine you are naming the game on the special properties are not supported by the special properties and the special you for special properties.

GRAPHICS 5 IQ FACTOR 3
850

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at first sight this one desen't book like anythin special. After a while, however, you are beginning to get used to the controls and starring endly entry yourself. You will also be impressed by the abmoiston to decale, and it impressed by the abmoiston to decale, and it exclusioned will begin to want after you've you in a few hours of piley, this will be countered amond by your improving technique. You will almost certainly still be playing this one isn almost certainly still be playing this one isn where other games have been consigned to the after other games have been consigned to the still be a support of the still be a support of the still be a support of the still be abmost certainly still be playing this one isn after other games have been consigned to the still be a support of the still be about the still be about the support of the still be about the support of about the about the still be about the still be still be about the still be still be

Not so hot on clay! The score shows that this particular reviewer needs a lot more practice...

AURENČE 1

MONEY FOR OLD ROPE

THE GAME AIN'T NEW, BUT THE CONVERSION IS GLEAMING!

C64



Bomber

Activision; £14.99cs; £19.99dk; PC version reviewed in Issue 27; ACE rating 925

Vector Grafix superb flight sim, Bomber, emerged on the PC last year to great acclaim. Not only did it include fourteen planes but also boasted incredible solid 3D vector graphics. There was also a variety of features to keep nonspecialists happy (such as the outof-cockpit views) and a mission designer. Although everybody seemed very excited about the program at the time there was a dark thought at the back of a lot of people's minds: This is fine on a 386 PC, but what will the 8-bit versions look and play like?

Now that the C64 version has emerged it is time to either allay or confirm those fears. When the thing finally loads you are presented with the usual aircraft selection screen, and at this point things look good. It is only when you get beyond this point that some of the C64's deficiencies begin to show.

The most obvious thing is that many of the options available on the PC version are not available here. Well, that's to be expected because of the memory restric-



tions. When you actually begin to play, the reduced screen area and slow update speed are also painfully noticeable. However, it would not be fair to decry the program too much -it is still a remarkable achievement, but perhaps a little over ambitious which may give existing C64 flight sims the edge.

ACE RATING: 775

Ballistix

Psyclapse; £12.99dk, £9.99cs; Amiga version reviewed in Issue 20; ACE Rating 686



Psyclapse computer variation on Crossfire is back again, only this time on the C64. The idea behind the game is to repeatedly fire balls at a spherical puck, and knock it into your opponent's goal. You can either play against another person, or on your own, fighting against gravity. All of the elements of the other versions are here, the only difference being the slightly poorer quality of the graphics. The game is fast and furious and provides plenty of short term fun. Not a lot of stay ing power though.

ACE RATING: 600

Chase HO

Ocean; £9.99cs; Amiga and Spectrum versions reviewed in Issue 29; ACE Ratings 840 and 868 respectively.

Take a very simple idea for a driving game, add some fast highquality graphics and lots of sound, stick the whole lot in an arcade cabinet and you've got something approaching Chase HQ. The coinop has done very micely for itself thank you very much, so it was no surprise at all that Ocean made quick use of their Taito Icense.

The first two versions of the resulting game were pretty good. Ok so the graphics on the Spectrum (and even the Amiga come to that) don't come anywhere near



those of the arcade machine, but the conversions did retain its playability. The C64 version could easily have been the same, but unfortunately the jerky and slow graphics and strident sound don't help matters much. The game is playable enough but it doesn't really compare to the first two ver-

ACE Rating: 700

SPECTRUM

Operation Thunderbolt

Ocean; £9.99cs; Amstrad and Amiga versions reviewed Issu 29; ACE Rating 815 and 927 respectively

Tato's blood 'n' guts coin-op Operation Wolf went down a storm with arcade addicts, who were all able to pop along to their local outfit after a hard days grind and practice killing the boss with an Uzi very refreshing. Hardly surprising then that being able to do it with a friend in Operation Thunderboth was even better. Even less surprising is Ocean's release of this game after the successful conversion of

The best thing to say about the Spectrum conversion is that it is very competent and quite a lot of first. In the end though I found that, as ever, the monochrome graphics began to get in the way of my full enjoyment of the game. When things get frants it becomes almost impossible to joic individual figures out against the background. It's a shame that it is this totally unavoidable factor which spoils an oth-

ACE Rating: 725





Trade Secrets is an exciting new concept in games hints and tips. In addition to your excellent Tricks'n'Tactics sent in to us, ACE will pick the most popular game released every month, and ask its programmer to reveal all the game's inner secrets. Every game taming ploy will be covered, from complete game maps to hidden cheat modes and bonus levels - told by the person with ultimate knowledge of the

game... its creator!



CHEAT AT CHASE

What better way to begin Trade Secrets, than with the top selling computer game of Christmas '89? Ocean's Chase HQ (E READ LOUB racing-sim coin-op conversion was reviewed in ACE 29, where it achieved a 868-rating on the Spectrum. Rik Haynes discovered all Chase HQ's inner secrets by grilling its programmer, John O'Brien...

AND CPC CHEAT

and press should now get a menu selection screen allowing you to view the logo animation, restart a level. go straight to the end



chasing a crim's car, activate the Continue Fea-ture as soon as possible, because they keep on

You can cause more damage by jumping on the



Switch to low gear on the hard turns. The best time to switch to high gear is when you reach 100. The inside lane normally has the faster cars. Power down to low gear before activating your turbo to achieve a fastest speed in





FITTING THE PIECES

Taking 6 months to develop, the Spectrum wersion of Chase Hy was written on a ST Mega 2 cuising Coean's custom-designed suite of development software, which includes assembler and graphics editor. Although the game's sprite and background graphics were designation on the ST, the loading screen was drawn directly on the Spectrum. A large percentage of O'Brieris programming time was spent writing Chase's comlex "Igsaw" graphics Indiquage used extensively in the game, for instance when enlarging graphic objects on the nodiscope. O'Brien said,

"getting the speed while retaining the graphics in perspective was the hardest thing to achieve - it's shifting a hell of a lot". The sprites were designed by William Harbison on the ST using Ocean's in-house graphics editor. Once the monochrome Spectrum sprite outlines were created, versions for the CPC could coloured in. O'Brien's favourite sprite is the helicopter pilot portrait in the control panel, because "it's very stylish and the colours work well". Jonathan Dunn translated four soundtracks from the coin-op with O'Brien supplying an additional 15 sound spot-effects. Five more sound FX were directly digitised from the arcade machine using an Amiga sound sampler - this data was then inserted into O'Brien's ST source code. "This is one of the advantages in using our own 16-bit development system." enthused O'Brien, whose favourite sound effect is the thud of your car hitting the floor after jumping a hill Unfortunately, the screen-update prevented the use of an in-game soundtrack. Despite this flaw, the screen

update runs at a staggering average of 13 frames a second – could Chase HQ be the fastlest Spectrum race-game on the market? Irate Speccie programmers can write to ACE at our normal address. O'Brien is most pleased with the flying longon on the param's title screen.

C64 CHEAT

Similar to the ST and Arniga cheat, simultaneously hold down the fire button and type GROWLER. During play you can now reset the time by pressing the T key. "they all run in a single frame". He's less impressed with the game's steering control, "it could have been better if it wasn't for the update rate*. In fact, the steering routines were rewritten 10 times during Chase's development. Sadly, a lack of time and spare memory forced O'Brien to ditch plans for hidden bonus and attract sequences in the Spectrum and CPC versions of Chase HO. These features can be found in the original coin-op and many Japanese console games - these are the types of games O'Brien prefers. When asked why gamesters should buy Chase HQ, O'Brien unashamedly answered, "it could be my last Spectrum game." O'Brien finished our interview with a tip for any potential game coders or designers wanting to hit the big time: "when you send stuff to software companies, never send anything average people always remember your worst work rather than your best".

CHASE HQ SPECS 'n' STATS

Version: Spectrum
Run-time Program Size: 320K multi-load

Source Code Size: 640K Program Breakdown: 20% Code, 79%

No. of Levels: 5 stages

No. of Adversaries: 1 criminal + 3 other

Max. no. of on-screen Sprites: 50

Average no. of on-screen Sprites: 20 Max. on-screen Sprite Size: "Bloody Big"

No. of Sound Effects: 15 + 5 samples

No. of Soundtracks: 4

Max. Soundtrack Length: 90 seconds

Average Screen Update: 13 frames a second





depending on which lame its in. Car get more and more intelligent as the game progresses—they all tuelst and turn and some even try to deliberately get in your way. Restrict overtaking to the straights because you get pulled towards the opposing cars on a turn.

they incur time penalties some of them just cannot be avoided.



LETTER

Dear ACE.

What the hell's all this rubbish about hypermedia CD-I. and a 'games revolution' I've never even SEEN a CD-I machine. In fact, people tell me they don't even exist! Is this true? Are you just trying to press my buttons or what?

Yours sincerely,

Joe Public.

LINKED

more, check the Jargon

You just pressed a button - well, you would have done if this article was implemented on a media system. And you got

BUTTON

FRAMES

This is another frame. All the boxes in this article are frames. Each frame is given a which is usually the same as the butter

Colloquial phrase meaning 'attempt to induce a sudden state of uncontrolled er anger, misery'. The term button to refer to an element in a hyper



The joy of Cosmic Osmo is that you don't i the buttons are. Finding them (and seeing the results of pressing them) adds a delightful dimension of dis

TURN THE PAGE

The most important development in games-playing history is now well and truly underway. It all started with something called 'hypertext'.

story...

How to use this guide: Just start with the letter, and follow the links in any order you like...

Here's the full

HYPERMEDIA

Hypermedia is a trendy catchphrase that really took off following the development of so-called hypertext systems. These are simply databases which present information to the reader in a format that allows him/her to browse through the information in the database in an Information in the database is stored as a series of fram of which contains a chunk of text. For example, the letter from Joe

The information in each frame is, however, **linked** to relevant passages of information in other frames. So, for example, if you were constructing a hypertext version of an encyclopaedia, the frame containing the reference for Xenon II might mention the Bitmap Brothers, details of whom might be contained in a separate frame. The user could then click his mouse pointer on the words Bitmap Brothers and the system would automatically display the new frame with their

In this example, the words Bitmap Brothers would be termed a

button - clicking on buttons enables you to move from one frame to another along predefined links and the process can be continued indefinitely. For example, the new Bitmap Brothers frame might contain a new area of reference: graphics programming. This movement from frame to frame, exploring the information in the database, is called browsing. Furthermore, each frame need not be limited in size (except by storage capacity, of course), so clicking on a reference to Othello in the frame about Shakespeare might call up a frame containing the text of the entire play. For this reason, CD-ROM, with its vast memory storage, has rapidly become associated with hypertext systems

In a hypertext system, frames contain only text. However, people soon realised that they could hold other things as well. Given the right hardware, frames could contain sound samples (click on Soul II Soul, hear Jazzie B), graphics, or even other software systems (click on Xenon II, play the game). When these other types of data are incorporated, you've moved from hypertext to hypermedia.

RAD

To help make things easier, we've broken the links between the frames on this spread and the previous page. If you want to follow your link from a button on page

57, just look for a frame on this spread with the same name as the button.

Yes, this is unfortunately true: at least as far as we were able to ascertain at the time of going to press. None of the major CD4 systems are yet available for public consumption and the development systems in use by soft ware houses are constantly being upgraded

However, the software systems that will drive the new machines are already being developed using existing technology. This is the importance of games like Cosmic Osmo or

hese games may look crude, but they really do represent the beginnings of a games revolution, because the concepts they are developing will later drive hardware capable of making your gamesplaving dreams come true. Yes, it will be worth the wait.

This company have recently been buying up Hollywood film companies left, right, and centre. Expect to see interactive versions of famous movies in the near future. Soon you'll be able to Come With The Wind, instead of just going with

Sony were also collaborators with Philips on the CD-ROM and CD-I standards.

PHILIPS

We covered the Phillips CDI machine in ACE issue 24. Scheduled for release during the next couple of years, it's promised at under \$1000.

Make no mistake: CD-I is totally hyperconfusing! In fact, here in the UK if someone claims to know anything about it, you can be pretty sure they don't. Here are the facts...

ness Book of Records is a

ation. See page 11 for more

The laser disk technology that has given us compact disks for music can also be used for computer data. Unfortunately, the WAY in which it is used has evolved in many different directions:

CD-ROM

This simply means any CD that holds data in a read-only form, as defined by the Philips/Sorw Yellow Book (see the Jargon frame).

Microsoft, the company dominant in the PC market because of their operating system MS-DOS, are keen to maintain their exalted position in the future by further developing the CD standard. Amongst other things, they recently recruited Greg Riker (who previously headed up Electronic Arts' CD-I development division), so let's hope games considerations aren't entirely absent from their plans.

Microsoft have recently announced three levels of CD-ROM development: CD-ROM, which is really just the basic storage facility; CD-ROM XA, which allows audio and digital signals to be retrieved simultaneously; and CD-ROM XA plus full motion video. The latter uses a special chip that, by compressing/decompressing the data can speed up the transfer rate.

Most people know that it stands for Compact Disk Interactive. All this means is that the hardware and operating system of the unit which accepts the CD is capable of taking data off the disk and allowing you to interact with it. In order to do this, however, you have

to be able to drag the data off at a considerable speed. It would be no use, for example, if the user wanted to click his mouse button on Mick Jagger's animated lips and hear the vocals of Jumping Jack Flash if the syste was so busy animating the lips that it couldn't get the sound data out at the same time.

This problem of data flow is THE big technical bug-bear of ALL CD development. In order to animate a full frame of video, lay over a CD-quality sountrack, AND add in all sorts of clever computer wizardry (sprites, for example, or icons to control the system! you need to shift enormous quantities of data at very high speeds. Finding ways of solving this problem has led to a number of different standards being evolved, and this in turn is responsible for the confusion in the market and the fact that there STILL isn't a CD4 machine to be seen on the shelves in Dixons.

However, the best known standard is that currently being developed by ony. So if someone talks about CDI, they may be simply using the term loosely, or they may specifically be referring to the Philips/Sony system.

In the search for rapid data retrieval, RCA developed a chip set that, when bolted onto a PC equipped with a CD drive, solved the problem. DV-I can not only produce full frame animation, but it can also handle the sound as well, and - very important for us gamesters it has a superb graphics processor that produces really high-quality compute graphics. You can thus mix nixels with video with ease and great effect, which is essential for many current game styles

DVI was recently purchased by Intel. Since Intel, Microsoft, and IBM are all closely linked in the PC market it has been suggested that Microsoft's CD-ROM XA with full motion video is in fact the Microsoft operating system with DVI bolted on. There has, however, been no confirmation of this.

We thus have three main 'CD-I' systems. The Phillips standard, which is still under development, has yet to offer full-motion video (but will soon), and is now expected in the shops at the end of this year. But then, it was expected in the shops two years ago. The Phillips approach is currently the only one that explicitly promises a unit for use in the home (and therefore for games as well as reference and education). When we will see it is another matter. Furthermore, the graphics processor on the Phillips system is not exactly state-ofthe-art, so if you're expecting Amiga-quality sprites to dance across your video background, forget it. Think more in terms of C64/MSX quality there.

Then we have Microsoft's CD-ROM development program. This is currently targetted at the business arena and PC users in particular (though there's no reason why it shouldn't be made available for other machines).

Finally, we have DV-I, which is by far the superior system and which may turn out to be the engine behind CD-ROM XA (the third stage of Microsoft's development, that offers full frame video animation

It would be lovely if all this confusion sorted itself out in the next twelve months and left us with the best possible system on the shelves at the lowest possible price. But it won't. Remember the battle between Betamax and VHS on video recorders? Retamax was the better standard, but VHS won. As for the time schedule, think five years, and don't expect to see your 1990 Christmas stocking bulging with CDI goodies.



Fergus McNeill used to design games like The Boggit and Robin of Sherlock using adventure generators. Now he's turned his hand to hypergames: he reckons they're the gre est computer challenge to creativity he's uet en-

NOW GO TO PAGE 11!

Just why are games like Herewith the Clues (see pages 61/62), Cosmic Osmo and Psychokiller so important?

These games represent the first wave of products developed using hypermedia principles. They may not be much to look at, but that's because the hardware they're running on has limited memory for digitised pics and sound. What's more, the storage medium is usually floppy disk, so there's a horrible pause while each new frame is loaded in and displayed on screen.

Not much to look at, but if you're interested in playing staggering interactive epics with full screen video and CD-quality soundtracks then these products are more significant than any of the most ambitious 3D games currently on the mar-

That's because these early hypergames are all using the software systems that will soon be driving even the most powerful CD-I machines. Not only using them, but developing them, refining them, and giving games programmers the experience in working in a completely new way. In five years time, you'll look back on these games and cringe at their primitive appearance, but at the same time you'll know that without them you wouldn't be enjoying that CDI fantasy you got for Christmas 1995.

JARGON

In CRL's EGADS system (see page 61), a sequence of frames/actions.

BUITTON An element within a frame which, when activat-

ed (by clicking on it with mouse, for example) calls up another frame.

standard CD audio systems.

CD-COMMON A disk format standard that can be read by both Macintosh and IBM machines.

Compact Disk and Graphics: an early CD4 standard developed by Warners and offering CD performance with added graphics facili-

Generic term for interactive compact disk technology. Also a standard developed by Phillips/Sony. Offering up to 660 megabytes of storage, eight hours of stereo sound. 32,768 colours for static graphics, 256 for programmed animation.

CD-IV

Infrequent term, referring to CD4 with full motion video capabilities.

CD-ROM

As a generic term: any CD offering read-only storage. More specifically, a standard developed by Microsoft and leading to advanced CDI potential.

CD-V

Compact disk video: an analog/digital system from Phillips that can play CD-audio and accompany it with a full-motion video signal. Unlikely to have much significance for games.

DV-I

Digital video interactive: a chip set developed by RCA and now the property of Intel. Offers full motion video and sound together with graphics manipulation features.

In video terms: a single screen image, updated 30 times a second (in NTSC format) and 25 times a second in PAL/SECAM formats. Compact Disk: a 12cm laser disk as used in In hypermedia terms: a single file within a hypersystem that can be displayed on screen and which conventionally contains text/graphics data: however can also be used to contain sound or program code.

GREEN BOOK

The Philips/Sony book of standards for CD4 technology.

HYPERCARD

A simple hypermedia system developed for the Apple Mac, popular with vuppies, and now bundled free with the machine.

INTERACTIVE VIDEO

A system that enables a video program and a computer program to run simultaneously under the control of the user.

The Philips CD I machine, covered in ACE 24.

Interactive Video Tape: a hardware system (different versions exist) that turns a VCR into an interactive system by splitting the tape into

different tracks and switching between them under computer control. Covered in ACE issue

The connection between two frames, activat-

LV-ROM

Laser Video Read Only Memory: analog/digital system used for the BBC's

Domesday Project

RED BOOK The Phillips/Sony book of standards for CD-

Audio technology.

REFLECTIVE OPTICAL VIDEO

Disk technology whereby a laser inscribes shallow pits on a glass master disk. Copies are then pressed in plastic with metal stampers moulded from the glass master. The copies are then covered with reflective aluminium and sandwiched between layers of transparent plastic. Used for most CD applica-

SHOT

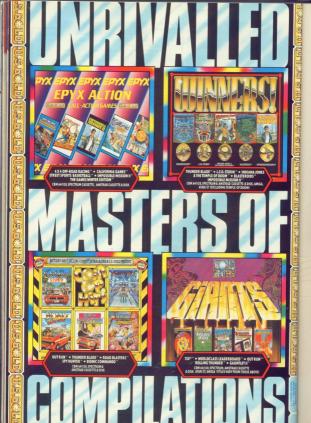
Alternative term for a hypermedia frame, used by CRL in their EGADS system (see page 61).

The Real Time Operating Nucleus: Japan's challenge to CDI, yet to be seen, evaluated, or - possibly - even produced.

YELLOW BOOK The Philips/Sony book of standards for CD-ROM technology.

YELLOW GREEN STANDARD

A mixed media CD-ROM format, so-called because of its mixture of techniques from the Yellow Book and the Green Book



Follow That Clue!

et's be honest, now. CRL is not one of the country's biggest software houses. Right now, however, its putting together a hypergames system which proves that even the little guys can hyper it up...

UF 0444F

THE GAME
Remember Dennis Wheatley? The bloke who sent horrible hairy spiders prancing across the living room in search of innocent female flesh in The Dent Rides Out? Although best known for his Duke der Richelse Usak magic stories, Wheatley (grandlether of Domark's Dominic Wheatley, just in case you didn't knowl was also a prolific author in other areas and one particular oddify he churned out was a sort of DHY murder kit called Herwarkt the Clues.

Produced in collaboration with a Mr Lisks, HTC came in a neal title ficility that contained a number of documents, some photographs, some press cuttings, and various inhabits in title bags. The story certies round terrorists in London just before the outbreak of the Second Wind Win. As Assistant Commissioner of the Met, you have received a tap-Off regarding the budfies, and when one of them gets kilded you have to Irist identify and locate the gang and then establish a limit of the second second second in the second second produced to the second second second second produced to the second second second second produced to the second second second second produced second se

When Clement Chambers of CRL spotted this titler adique, the first thing that spraig into his mind was that it would make an ideal hypermedia project. It has all the right characteristics (see the article on page 280: lots of visual and written data, all linked together and all creating logical 'pathways' for the woulder sleeth to follow with his magnifying glass or, in a hypergame, with his mouse.

The first thing to do, however, was to come up with a software system. As Clem says, hypermedia "...is quite unlike a normal games programming project. With the latter, you get a lot of programmers and

games-dedicated

hypergame generator.

CRL have come up with Britain's first

All tha

graphic artists sweating away for months on state-ofthe-art graphics and sound rotaties... which are allyshown off to best advantage by a lousy game design. With a hypergame, however, the actual software system is comparatively easy to program: it's the data which is problem. HTC offered all the data on a plate. All that was needed was the lengine to drive it.

THE SYSTEM

Enter 18-year old John Casey, who in six months produced Britain's first games dedicated hypergame gen-

Hardy Stuff

and much of the material is a direct from the material is a many factor of the material control of the material control of GLAS are first probled from a GLAS are first probled from a force of the material control of properties using the system. In deligion, the challenge is bitchingle a new front follow. This is a development from the material control of the



into blows a typicial in to traine during development (the EGAS. The rectangles indicate the ourrent location buttons which, when clicked on by the player, will add to new frames. Naturally these rectangles are not isplayed during play! You can define as many buttons is you want on each frame.





One of the ake a clo look at this ck his hand en correlate to discover a of the delights s the ability to



EGAS was developed because of

a desire to have a non-technical

game production system. We

wanted to free the imagination of

designers without subjecting them

to technical disciplines: after all,

you don't have to build a camera

to make a movie.

erator. Called EGAS, it allows a non-technical game designer to assemble data in the form of digitised images, text documents, Deluxe Paint files, sound samples and what-have-you and then link them together into an interactive network of exploration and atmospheric experience.

EGAS actually stands for Expert Graphic Adven-

ture System, which might lead you to think that it was something along the lines of Incentive's Graphic Adventure Creator, but in fact nothing could be further from the truth. There is no 'parser' or other adventure software-type feature: instead you have a true hypermedia engine, very similar in many respects to Apple's Hypercard system and quite capable of turning out a game like Manhole or Cos-

mic Osmo - but in colour rather than simply in black and white (Osmo was monochrome only). It's also much easier to use from the game designer's point of view because it's tailor-made for producing games rather than the iack-of-all-trades nature of Hypercard.

EGAS uses typical hypermedia terminology (see page 28-30). The more normal 'frame' is called a

'shot' by CRL, but the buttons and links are there as usual. The designer is able, using EGAS' control panel, to build up a series of links between screens (see panel on this page) and, by determining the sequences and connections, he/she can construct an entire hypergame universe.

Herewith the Clues comprises 16 exhibits, 11 photographs, 25 frames of character information, and fifty frames of 'relevant documents'. This isn't an enor-

CRL aren't hogging their system all to themselves: they've given a copy of EGAS to Ferture generator The Quill to bring you games like The Boggit and Robin of Sherlock (see page 29). This connection between hyperties may not be entirely coincidental: is the hypergame the 1990's replacement for tradimous amount by Hypergame standards and there isn't any animation involved (the next EGAS game will feature animation - see panel). Furthermore, in keeping with the time period, all digitised images are in slightly out-of-focus black-and-white. On the other hand, there's a lot of scope here for brain-stretching and you're unlikely to finish the game in an afternoon, or

possibly even in a month. You'll find yourself backtracking through various screens and following different routes time and time again as you correlate all the evidence and build up your case.

HTC should be available in Febru ary or March on the Actual Screen shots label for £19.95 for the ST. Other versions should follow later.

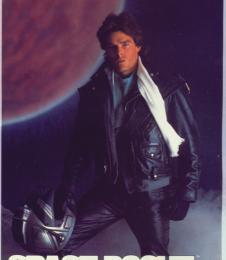
Clement Chambers Watch out for the ACE review of this first British hypergame in the very near future. Meanwhile, we've only got one gripe: why not make FGAS available on the open market in the same way as the old adventure utilities, The Quill and GAC, were: that would really challenge the status-

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ACE AT ATEI

RIK HAYNES PLAYS THE SPRING CROP OF UK COIN-OP RELEASES

he Amusement Trades Exhibition International IATE; coincy show at London's Olympia exhibition centre is the UK's premier arcade trade event, showcasing a myriad of new coincys, slot-machine and pinball decks, as well as the more traditional leisure gear like gocarts, inflatable castles and shooting galleries.

Visitors to the show consisted of middle aged salescusts, notice of hasheldooking Japanese, and the obligation teerage Japanese, and the obligation teerage between the compart of the com

LEADING LIGHTS

Konami, one of Japan's major coin-op manufactures, used ATE1 to launch three new arcade games in the UK: Allens, Gradius III and Teenage Mutant Ninja Turties. Based around the superlative James Cameron motie Allens 2, the first of these games features dightsed stills from the film and colourully gruesome alien creature sprites, as you clean up an aleninfested off-world colony with the help of hip-





Forget cein-ops, get into go-cart



ATEI at Olympia: no we didn't have a stand!

gues, greade faunchess and faine throwest. The game is a simulaneous beopleyer multistage shorfemap which filoso between horistage shorfemap which filoso between horicontaily- and vertically-corolling backdrops and static, head-on sections. Its synthes and backdrops are very remissence of the filin. A butthe action is a filter reportive despite the approach of multi-stage sectionsly. Still well worth as book though, especially if yorke a fain of the appara and authors of the Neuronauscus solinovel, is currently working on a script for the Allens 3 move.

Gradius III is the latest in the classic. Non-feether series series of short-emps, featuring all the power ups we've come to know and love—lasser, missile and double, to name but a few. It will of course do a storm in the arcades, but its gameplay and visual styles, routed back in '85, are starting to look dated now when compared to the likes of X-Multiplay and R-Type II. Tenage Matan Neja Turties Gee ACE 29 of more on Matan mania was the best Konami game on stand. It's full of character and charm, as you move from your Tenage Turtie sever-deeling to rid the city of villainous scum and save are reporter April TUPR from the evil cultures of the Shredder - in a comic simulation of the Shredder - in a comic simulation of the Shredder - in a comic simulation of the standard of the Shredder - in a comic simulation of the standard of the standard

ont want to be turned into lurite soup or wax. The veteran US coin-op maker, Atari, produced two new titles to an appreciative audience. Klax is a 3D-perspective variation on the incredible. Tetris, calling itself a tic-tac-tile game. Its graphics are bright and colourful, but the now constant barrage of Tetris-inspred coin-ops may soon become tiresome — if it hash't already. Far more exciting was Bad-



lands, the long and eagerly awaited successor to Supersprint. Set fifty years after a nuclear holocaust, Badlands is a Mad Max road-warrior track race-sim, featuring car customising options and eight tracks including city, desert and oil refinence benefities.

Arris Namco subsidiary also had an interesting coing on show. Fourtra is a siddown buggy-like race simulator incorporating a first insulfaceus based to head of competitive play with up to eight people. Many competitive play with up to eight people. Many player arrade games at the moment and Namco believes its newly developed hardware used in Fourtrax gives the company the jump over its competitions.

BEST OF THE REST

Among the other entertaining coin-op games on stand were Tatsum's Round Up 5 Super Detta Force racing game featuring five-stage Chase HQ-style racing in a three-screen sit-down cabinet, Segal's Op-Wolf-style Line of Fire and Segal's Shinob-like Shadow Dancer. Irem's excellent R-Type II also made an

Final Fight from Capcom is a Double Dragon style save-the-girlie kick'emto-death'em-upset in 1990's Metro City, a town not too dissimilar to New York with slum, uptown and bay areas full of familiar-looking skyscrapers and soumbag inhabitants. Nothing original to be found here, but fun nevertheless.

Already out on computer formats and the Sega Megadrive, Rambo III finally made his coincip debut and in the cube stakes, Tad Corp came out tops with its Toki scrollie arcade adventure featuring a lovable monkey-esque hero complete with American Football helimet! Could this possibly be the New Zealand Story of 1990?

Tecmo obviously has '90 in mind with its World Cup football game, strangely titled World Cup 89. The game looks a bit like Audiogenic's Emlyn Hughes Soccer with a side-on 30 view, and plays like Microprose Soccer. Unfortunately the player control is slow and jerky. When will Anco's brilliant Kick-Off be upgraded to rein on forms.

The most off-beat coin-op at the show was Mitchell's Pang. You control a little chap (who looks a bit like the spirte out of Activision's familiation of a state screen trying to avoid a giant red sphere which bounces mernly around the screen. If you shoot the ball, it splinters into two smaller spheres, thus doubling the chance of you getting bit. This continues until the



Mands: Attri's successor to its superlative Super Sprin



iy are these people wearing Addis kitchen tidies? 'Cause they're playing Our Inflatables' Loser Starship 'skirmis'



sphere's get too small and they're destroyed with another hit – then its onto another backdrop, only with more speedier blobs and some

drop, only with more speedier blobs and some on-screen obstacles. Weird city or what?

AND NOW FOR SOMETHING COMPLETELY DIFFERENT As the amusement industry diversifies away

As the amusement industry diversifies away from coin-op/stot machine entertainment, it has started to look back to its roots for inspiration. First there was the renaissance in pribal machines, even culminating in a Rôbocop pinballer – are we talking streetcred? Now another old fave from the distant past, has been resurrected, redesigned and retailed for the 90's fishle injurie rather; the op-card

Remember the good old days – the daytrip down to Southendon-Sea's go-cart track at Peter Pan's amusement park, the stench of burning rotten rubber, the obligatory broken brakes, the older drivers who deliberately slammed into your cart when their parents



weren't looking? Well don't get too nostalgic,

'cause all that's changed now as go-carts get

cyber and become the latest "in-thing" for cor-

porate leisure weekends. These days, go-carting consists of in-door Le Mans-type organised

races, vuppies (or whatever they're called this

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You will be unable to tear yourself away from the screen even when it's way past midnight' Mark Higham - ST Format



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Laser Squad from Bladesoft

Laser Squad combines strategic skill with the use automatic weapons to defeat part of hunter or hunted - play with a friend and take turns at opposing roles. One player opti plays against artificial intelligence so highly develoed it bites!

'Laser Squad is a terrific game that is superbly playable of any gameplayer." Andy Smith, Amiga Format



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'Brilliant is the only way to describe Thunderbolt' - not a

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ACE 02/90

Pratchet

OK, so what's our excuse for putting Terry Pratchett in the

magazine, eh? He's brilliantly funny (well, his books are)

and - oh ves - he uses computers to

> produce his literary gems. Definitely

advanced computer



Terry Pratchett, Discmaste

sk anyone in the street about Terry Pratchett and half the people will say 'who?' and the rest will say 'yeah, brilliant. I've read all his books'.1

Terry Pratchett grabbed his first slice of cult status with the initial Discworld book, The Colour Of Magic, an introduction to the flat planet called the Disc and its wild magical lifestyle and characters. The colour of magic, as it turns out, is a sort of pinky-green, but the common thread through all the books has always been, not the magic, but a wry sense of humour: jokes that set you up pages before they hit you, coupled with a complete mastery of the footnote gag

Up to date there have been eight Discworld novels, shortly to be joined by a ninth, Moving Pictures, but nowadays less time is free to actually write as Terry finds himself in demand as a speaker at sci-fi and fantasy conventions, doing signing tours, and answering the phone to people doing their GCSE projects on

You get quite a lot of mail now, something like four times as much as you did last year. What do you get besides GCSE students?

Down the bottom of the pile to get answered are the people that think the way to write to a humorous author you like is to be rude, in what they think is a funny kind of way. Like 'Well, I'm writing to you because I've got nothing better to do with my time'. Okay, bottom of the pile, August 1992 we'll answer that one. The ones you like are the ones who say "I've never written to an author before', that sort of thing, You get some touching ones, and very nice ones, But the thing is when I'm not messing around with the computer trying to get it to do what I want, I can quite often spend a morning 'doing the office work', which means I'm not writing.

What did you want to be when you were little?

'An astronomer. I thought it was all looking through telescopes, you see, but in fact what it is, is sitting in a hut in Congleton doing mathematics. My daughter wants to be a Marine Biologist, and she thinks that's all swimming with dolphins. I said to her, it's all sitting in a hut in Congleton doing mathematics. Funny thing is, I met someone who is a Marine Biologist and he told me that's exactly what it consists of."

You recently collaborated with comicbook writer Neil Gaiman on Good Omens. You both use PC's so do you communicate by bulletin boards? Obviously the number of yes votes goes up if you stand outside a sci-fi and fantasy bookshop, but the public remains sharply divided into two

When we were doing the early drafts we thought we'd be incredibly modern and Jerry Pournelle about it and squirt the stuff down the line to each other. Neil lives in West Sussex, and so we both live in a rural telephone area. We both use Procomm, basically the same modern, and we both had IBMs. We ended up doing it at 300 baud because the mistake rate at 1200 was so high. By the time we kept ringing each other up say, 'are you sure you're on 8N1, because all I'm getting is a row of little faces...' we might as well have yodelled to each other in Morse code and it would have been faster. Anyway, the post is more or less reliable, you might as well just bung a disk in the

Do you tinker with your computer when you're supposed to be working on it?

I do an awful lot of tinkering, but largely because I'm neurotic about backing up. I've got three machines, large IBM's, upstairs. I back up to all three, simply because I get so nervy about losing stuff. I lost Mort the day after I sent it to the publisher, because I foolishly formatted the hard disk. So they had a final version but I didn't. And when six months work nearly goes up the swanny it makes you a trifle nervous. Tinkering has it's place. You can't sit there and pound out words every waking moment, so bashing your head in frustration against a computer casing is the next best thing to a hobby.

Where did the original idea for Discworld come from?

'I dunno, Haven't the foggiest idea. No, I know where bits of it come from, that's straightforward Indo-European mythology. The rest of it just evolved. Nowadays. I actually work on ideas for Discworld, I say I'd like to write a Discworld book with Death as the central character, then think about how I'll go about it. With the early ones, though, the stuff just turned up. I think that the Discworld in Guards! Guards! is a much more interesting place than it was in Colour Of Magic, I can do more with it now. It's very gently progressed



I don't want a smiley face telling me to wait. I want the thing to go bong!

from the kind of medieval civilisation which all high fantasy takes place in, to something which is rapidly approaching the Renaissance. This is okay, I think, because you can get more gags out of that."

You use an Atari Portfolio don't you, for taking notes and even writing on the move? Do you find it reliable enough?

Tve got to have been one of the first people to have got one. There are undoubtedly certain bugs in it. When I first got it, I took it to the World SF Convention in America, and it was great. I had about a thousand words and a spreadsheet on it and then it hung up. Resetting wouldn't work. I tried everything, I even replaced the cells with the ones I got with it, which I now assume were dead, but couldn't get it back. Then when I got home I tried fresh batteries and it came back. I was understandably curious about why I didn't get a Low Battery warning like it says in the manual. So I rung up the Portfolio Helpline. And they say 'Ah yes, it's the Duracells, see? There's this problem. The slope is so sharp the Portfolio has trouble with it.' So essentially what they were telling me was that if I use Duracells, which are the logical choice, I might not get a warning. 'But you supply long-life cells with it', I protested. In the end I thought, what the hell. I made a point after that for not keeping the batteries in for longer than a month. So what's happened now is that, well I got one of the very first ones, and you know what happens to people who get the first ones of any machine?

They basically bug-test the machine for the manufacturer?

Right. It would appear that what Atlant were telling everyore about the butteries sirt to 1.7% some lend of bug you get when certain internal files get to a specific size. I have to say that once we get though that bugged stage it's been fine. I did have problems at American customs, but with them locking at the filing because they wanted a GO on it, not thying to their about 10 set if had a load of bloody Sentiex. We have a supplied to the says of the size of GAR AMERICAN and the says of the size of GAR AMERICAN and the says of the says of

What's it like to type on?

I can type very fast on it. I did 5000 words in 10 days, which isn't my average, but it's bloody good for spending a lot of time in aeroplanes and at conventions and stuff like that. I was still keeping up a healthy output."

If you could write anything other than Discworld stuff, what would you do?

In the early summer Good Omens, by myself and Neil Gaman, will be coming out, and that's a departure from Discword. It is fantasy! suppose, I don't know. There is no way! could be a serious novelist. Which is a sharm, because! I have a rather good forensic horror idea, but I know! I can't do it. I did think! should find some guy who can do it and come to some arrangement."

What's your favourite type of music?

'Jim Steinman, or Jim Steinman or falling that Jim Steinman, quite often. I've got a lot of Jim Steinman and Meatoda. Kidaro, heard of him? I got Velveteen by Transvision Vamp, which was actually a bit of mistake. The title track was superb, but the rest of the abum is pretty so-so. But it's okay."



Starglider: I've played that till

Discology
The Colour Of Magic
The Light Fantastic
Equal Rites
Mort
Ward Sisters

Sourcery Pyramids Guardd Guardd Moving Pictures lout November 90)

Non-Disc Books

Well, there was The Curpet People (settlen about 20 years ago for jobs), thee Streta and Dark Side Of The Sins is pay of early sold-books). The Usuadistrated Cat is best selling can book like mice at books. The mice, Day gers lost soval and a their as yet untitled concluding volume forcely fersibled and of course, Good Omers loth Nell Gaiman, out in Mari.

Do you like computer games?

The yet to find a game on the BM which comes close to a moderatile good game on the America CPC128 well we get. Things like the original Batthuss I, used to the PC unit to both a support of the PC unit to both 1 support on the PC unit to the PC unit

What would you like computers to do that they don't currently?

They're not bright enough to anticipate what you want. I con't mide ben't filtery established, what get's so my noise is a veneor of intelligence, but deep abeing April Macrotton). The first time I looked at an April Macrotton, I have been a strong to the affect of Please April Macrotton, 30 seconds of this I suddenly thought, I don't WAVI a big smely face telling me to write the appropriate properties and the difficulties there you key. Many you the thought of actually going back to a hoveverte appails may anywher the applications.



























ACEFLASHBACK!

ear your hair out, nostalgia freaks: this is the final episode of the great ACE Flashback, covering the entire decade of computer entertainment. We've had great fun compilies the ACE Flashback, but inevitably we've had to omit some items due to shortage of

the ACE Flashback, but inevitably we've had to om't some items due to shortage of space. However, we'd be glad to hear from anyone who's got a favourite nostalgai item' that's been missed out; just drop us a line at the ACE office, marked ACE Nostalgai, and we'll run as many of the as we can fit in future issues. The address is 30-32 Farringdon Lance, London, ECIR 34U.

Now, for the last instalment, catch up on 1986-1989; the micro boom is over, but the 16-bit revolution is yet to come!

1986

ARRIVALS AND DEPARTURES

Launch of the year in the UK was the long-availed debut of the Commodore Arings, shown at the Commodore Computer show in May in its original A1000 configuration. Hard for recall that this beast would set you back a cool \$1,506.25 at the time, and that Commodore was busy deeping its potential as a games machine. Meanwhile the rival \$2005 was selling strongly at \$200 (with a colour monitor) - Commodore had, in effect, given Atari another year's head start.

The potential of the games console, back in a rea and technically advanced form, resided its head with the annual of the Sega Master System in the start. Other own emmission sees sneeply suitables of a brems. Commodore added an in-boult disk office and the commodore added an in-boult disk office year pot the C64 of the to novelamiliar renor casing. Amsterd added another 256fs RMM and a second section 128 in february and the refereigned Plaz 2 section 128 in february and the refereigned Plaz 2 section 128 in february and the refereigned Plaz 2 section cannot on the autimus time behalf. Alon section 128 in february and the refereigned Plaz 2 section 128 in february and the refereigned Plaz 2 (According to the start of the autimus time behalf. Alon segated the BBC standard at long last, bringing out the Master section.

CODE MASTERS

Founded: October 1986
Set up by brothers David and Richard Darling and their father Jim, after a year of writing for Mastertronic. Prior to that David and Richard had written Vic 20 games as Galactic Software while still at school.

Code Masters publishes on the pile 'em high, sell 'em chasp basis, lots of titles, all at impulse buy prices. An extraordinary high profile PR campagn in 1988-89 by West End consultants Lynne Franks public burlings on I'v and in the rational press, might the Durlings on I'v and in the rational press, might them one of the very 'few programming 'celebrities'. First title: ANS Simulator

Best ever seller: BMX Simulator (all formats)



The Darlings, made media heroes by their PR agenc

EVEN

• Alan Sugar buying out Sir Cilive Sinclair was the sort of event that turns up in spool predictions - in April 1986 it actually happened. No-one was surprised that Sinclair was being bought out, follow the Majawell debacle the previous year. That it should be Amstrad, whose chairman Alan Sugar had been wont to refer to the Spectrum as a 'pregnant calculator', made it the story of the year.

Anstatal speet £5 million on the Sincher name, its stocks and the rights to its tendrongs, Sinchiar Research continued to exist, and Sir Clive, free from the encumbrance of delsts and werehouse plied high with Spechrums and Çlis, were no to form Cambridge with Spechrums and Qlis, were no to form Cambridge Computer to develop portable computers — the 288 came out a year later, and Anmartic was founded to depose the Clive as done interpret hims Qlis and the size of the proposed fire Qlis and deep the computer of the Clive as done interpret hims Qlis and the proposed fire Qlis and deep the proposed fire Qlist and deep the proposed fire quite and deep the proposed f

■ The Prestel hackers, Steve Gold and Robert Schifreen, made the news again when their case (see 1985) finally came to trial and the pair were found guilty of forgery. The fines totalled £1,350, the costs a further £2,000. Gold and Schifreen immediately appealed and the case glousphed back into the courts. The ACE Flashback covers the final stretch of the decade, and reveals the Amiga, the PC200, and the console conversion of Ultimate...



he Sega Master system is the fir onsole to stand a chance of mas warket penetration in the 1990's, hanks to Virain.

Birth of the Home PC

Amstrad's PC1512s, starting at £469, were even cheaper. In addition, you could pick up a PC1512 from a

. In May, US Gold, software publisher with the Midas touch, slipped up. It had pulled off a coup in acquiring a computer games licence to the 1986 World Cup and all was set fair for a sure-fire number one game when the company discovered it was unable to get an original game based on the World Cup out in time.

Outwardly undaunted, the company went ahead with all the intended packaging - the badges, the scorecards, the posters - and in the absence of a original program included Artic's two year old World Cup Soccer. Which perhaps needn't have been a disaster in itself, but World Cup Carnival wasn't being billed as a re-release, and at £9.95, it wasn't priced as one.

WHERE ARE THEY NOW?

ULTIMATE SOFTWARE Once the undisputed masters of Spectrum programming with hits such as Sabre Wulf. Knight Lore and

being taken on by US Gold at the beginning of 1986. Leading Ultimate personnel set up a new company, RARE, to develop programs for Nintendo games consoles. Now have no links with the British market.

GAMES OF THE YEAR

Uridium was everyone's idea of the ultimate smooth scrolling shoot 'em up. Starglider, with its 3D graphics and fast scrolling, was one of the first games to demonstrate the potential of the 16-bit machines. Access's golf simulation Leaderboard was a firm favourite for its playability.

ARRIVALS AND DEPARTURES

The launch of the Amiga 500 and A2000 in March gave gamers a straight choice between the A500 and the 520ST as high specification leisure machines. Software houses buckled down to produce titles for the two, although Amiga buyers were often frustrated by publishers' tendency to develop games for the ST and for the Amiga version to be something of an afterthought. But then, at the time, some people were still sceptical about the Amiga 500: it was £100 more expensive than the ST, which by then had been on sale for 18 months.

The Spectrum that everyone had been waiting for, the Plus 3 with a built-in disk drive, duly appeared in May. And, a year after that Amstrad buy-out, we saw the fruits of Sir Clive's labours since then with the 788.



If it's the difference between people busing the machine or not. I'll stick a bloody fan in it. And if they say they want bright pink spots on it I'll do that too. What's the use of me banging my head against a brick wall and saying. You don't need the

damn fan, sunshine'?' Alan Sugar, after the 1512 overheatin rsy in 1986 (quoted in Financial Week) a laptop machine which had started life in another era as Pandora.

Amstrad enhanced its PC series with the launch of the PC1640, and a range of portable machines in the autumn. Atari introduced an up-market version of the ST standard, the Mega STs, and Commodore began its attempt to go back to its business roots with a

range of PC compatibles. All these machines were widely expected and with the possible exception of the Z88 held little surprises. It was left to Acorn, of all people, to provide the year's most sensational launch with the first Archimedes

The Archimedes 300 and 400 machines used Acorn's own RISC technology - and were something of a world-first at the price. They ran at a terrifying 4 mips (millions of instructions per second), it could display 256 colours from a palette of 4,096 at a screen resolution of 640x512, and the eight voice digital sound could play in glorious stereo. And just in case it wasn't abundantly clear that here was the ultimate games machine made flesh, David Braben had run up a little number called Zarch to demonstrate the

The Archimedes as games machine debate still rages. The main problem for the original 300s was that while £1,000 was a startlingly low price for a RISC machine, it was too high for a games micro. Secondly was the problem of support: games programmers were only just getting to grips with the possibilities of the Atari ST, and had scarcely begun to tap the resources of the Amiga's custom chips. That they would all be able to master RISC in their spare time was just too much to ask.

ELECTRONIC ARTS

Founded (US): 1982; (UK): April 1987

Trin Hawkins left his position as director of marketing at Apple Computer to set up Electronic Arts. The company aimed to produce products in the emerging such as Pinball Construction Set, MULE and Archon, the paint, graphics, animation and music Deluxe series





THE OUT

has, in its various versions, become a classic. The UK division of Electronic Arts was set up in 1987, publishing European-developed product as well as programs

First title: Pinball Construction Set Best ever seller: worldwide: Pinbal/ Construction Set (all formats): UK: Populous (ST, Amiga)

EVENTS

· Viruses hit the news for the first time in November. when Amiga owners were startled by the message "Something wonderful has happened - your Amiga is alive'. A Virus Killer package was duly programmed and distributed. It all seemed like a nine day wonder. Now that PCs, such as Amstrad 1512 and 1640. were going into the home, it became worthwhile for



companies to start producing PC games software, or importing from the US, where the PC was outselling the ST and Amiga put together as a home machine. The UK, very slowly, began to catch up.

In July, Steve Gold and Robert Schiffeen, now collectively known as 'The Prestel Hackers', won their appeal against their conviction for forgery after breaking into Prestel mailboxes back in 1985. British Telecom decided to appeal against the appeal, and the case went to the House of Lords.

This saga finally came to an end in 1988, after three years going through the the courts, when the Law Lords ruled that the appeal which quashed Gold and Schifferen's convictions, should stand.

GAMES OF THE YEAR

 Universal Military Simulator, from Rainbird, nailed the myth that wargames, however intelligent, had to appear on-screen as though they were progammed on a ZX81.



- UMS changing the face of wargaming.
- Incentive's Driller proved that Great Leaps Forward were still possible on 8-bit machines.
- Nebulus, from Hewson, was a highly original arcade style game, well up to the company's usual
- Guild of Thieves established that Magnetic Scrolls' Pawn was only the beginning.

1988

ARRIVALS AND DEPARTURES

After the furnier of previous years, 1968 was a quiet one for read and the form of the fo

In addressing the last question, Amstrad tripped up for the first time. At the same time as launching a set of PCs designed to give Amstrad its break in the 'Pan Am takes good care of you. Marks & Spencer loves you. Securicor cares ... at Amstrad: we want

your money'.
Well-known Sugarism, quoted in Finan
Weekly, October 1 1987, and many oth-



since Uridium...or have they? Super smooth playability made this Hewson blaster an all time winner.

'I believe people are smart, not damb. If you can give people Rolls Royces for the price of Volkswagens, I'm sure they will buy them.' Jack Tranie, introviewed at the Califerbibition in Nanowa. March 1058 about 8401.



PC 200 TROUBLE Demonstrated alongside the PC2000s.

Demonstrated alongside the PC2000s, which had state of the art VGA graphic

snowou up us many somptimesy. Here we had a PC intended to play games (there were four US Gold titles bundled wit it) and its graphics were sheady out of date. On the other hand the use of an integral 3' inch disk drive rather than a 5' inch version was abead of its fine.

Altogether it was a most un-Amstradlike machine. To make matters worse (and even more uncharacterissiasly), when supplies of the PC200 reached Comet, many were minus manuals, minus leads, minus operating system disks, etc. The PC200 pri off to a bad start and has never really recovered. corporate market, it also tacked on a 'home' PC, the Sinclair PC200.

EVENTS

- Alan Sugar, chairman and founder of Amstrad, and if you believe the Amstrad image making machine, an East End barrow boy made good, although more reliable talk would have it that the man does possess three science A levels, was awarded an honorary
 - oegree by Cily University, London.

 **After seem years in which the price of chips fell consistently, a succession of measures taken in the LOSA to protect its own seem-conductor industry against the flood of lowcost chips from Japan led to Component prices rising and a workwise shortage of DRAM (synamic memory) chos. Hardest hit were the Memocost PC Color manufactures, with their large memory, lose profit machines. Aredstad was forced to took the opportunity to put the ST best to £399-see below. Daily Commodore managed to remain adoff from this princip see-saw.
 - In June Commodore finally brought the price of Amiga down to £399.99, and sales of the machine took off at long last. For the first time the ST and Amiga were selling on equal terms. The ST had been selling at a standatione £299, but on hiking the price up to £399, Atani put the first of its multi-game bundies tooether, with 20 games in the box as well.



We want your money..." Alan Sugar.

GAMES OF THE YEAR

- Robocop, from Ocean, seemed just like any other film licence at the time. It went straight into the chart at number two at Christmas - few guessed it would still be there a year later.
- Mirrorsoft's Tetris was intriguingly developed in the Soviet Union, and proved to be one of the most addictive games of all time.
- Dungeon Master took the computerised D&D genre several steps further, while EA's flight/combat sim Interceptor combined solid 3D graphics with hair-
- Virus was the ST and Amiga version of Zarch, the game which had wowed everyone at the Archimedes' launch.

AMSTRAD IN TROUBLE

into profits, but 1989 beat it into a cocked profits had fallen. Then, as the company

October, and the City's worst fears were



much on the Gameboy, but it play as well as its bigger brothe

SAYINGS OF THE YEAR

Like your Aunt Ethel it never seems to

(New Computer Express, 14.1.89)

'A dramatic gesture is now needed to overcome any suggestion that this company is failing in its duty to supply reliable products



ARRIVALS AND DEPARTURES

As far as Commodore and Atari were concerned. business was war. Commodore opened fire by introducing an Air Miles offer with the A500. Atari responded by bundling games like billy-oh with the 520ST; Commodore put together a package around the muchhyped Batman film. Atari bundled yet more games. Commodore announced it had sold 200,000 A500s in the UK. Atari disputed its figures.

Suddenly there were alternatives on offer. The console comeback actually happened - despite itself. Virgin used all the marketing muscle at its disposal to keep the Sega in the public eye, and Nintendo consoles finally began to move off the shelves (though according to ACE reader research, they still account for only a fraction of consoles sold): NEC didn't launch the PC Engine, but people imported them anyway. Nintendo's handheld Gameboys were imported, begged, borrowed and stolen, thanks largely to the inclusion of Tetris with the machine.

Acorn caused another stir with its 'low-cost' Archimedes derived machine, the A3000, Much waiting and gnashing of teeth from software house, press and the public - at £1,000 including a monitor, it's still not cheap enough. But Acorn made some efforts to woo the mainstream software publishers and at the end of the year, the jury is still out regarding the A3000's future.

EVENTS

. The virus problem became acute, though this was partly due to the surrounding hype. Publicity encouraged some programmers to devise their own viruses; fear of infection led some people to attribute any glitch, crash, or bug to a virus. The virus detectors programs and people - had a field day.

Many so-called viruses, such as the Friday 13th program, appeared to be more the product of hype than a concrete threat. The full effects of the 'Aids' virus, which claims to be waiting to wipe hard disks,

. The Konix Multi-System burst into the limelight at the Toy Fair in January with a prototype console and its imaginative 'add-on', the hydraulic chair. The press and software publishers were captivated and eulogistic articles appeared. Konix went back to its headquarters high above Ebbw Vale and prepared for the Multi-Sys-

In the event, the 'grand launch' turned into a nightmare of embarrassment, as the system failed to turn up until a couple of pre-production machines stuttered into action on the last two days. The chair was still a

Meanwhile the media remained relatively quiet, unwilling to broadcast the open secret that Konix had run out of money to bring the Multi-System into production, just in case adverse publicity caused the whole house of cards to collapes. The problem appeared to be alleviated in October when distributor Add-Ons took a stake in the company. The Konix saga continues into the 1000e

· Another machine for which much was promised and which nearly didn't make it in the 80s was the Sam Coupe, a Spectrum-compatible games machine with sophisticated graphics and sound capabilities devel-



oped by Miles Gordon Technology. Like the Konix, Sam also suffered delays before an initial production run of just over 800 units slipped out in December.

· Hacking should have been one of 1989's big stories. In the end it proved a non-event, Tory MP Emma Nicholson gained a lot of publicity for her Private Members Bill, but withdrew it when it was apparent The Law Commission published a report recommending a maximum punishment of five years in prison for people convicted of altering computer data having gained unauthorised access to a system, but no antihacking bill was included in the Government's legislative programme.

· Electronic Arts introduced 16-bit budget titles with back catalogue releases at £19.99; then US Gold after the success of its 8-bit budget label Kixx, set up Klassix, also at £9.99. But who else but Mastertronic should decide that this was far too much and at the end of the year launch at range of 16-bit games for

MICROPROSE

Founded (US): 1982: (UK): 1986

Major 'Wild' Bill Stealey, management consultant and ex-US Air Force, and Sid Meier, programmer with General Instruments, founded Microprose to develop flight simulation programs with an eye to detail and authen-

Was part of the US Gold stable until the end of 1986, when Microprose set up in the UK. Enjoyed success with Gunship. Silent Service etc. but underwent huge upheavals in 1989 with the acquisition of the BT Telecomsoft conglomerate and the departure of UK MD Stewart Bell and affiliate label Origin shortly afterwards. Now have 55 staff in UK.

First title: Helical Ace Best ever seller: Gunship (all versions)

GAMES OF THE YEAR

 Populous appealed to the megalomaniac in everyone as you played God with your people and lands. Meticulous programming and eerie sound effects gave weight to this original effort.

· Hardly original, but winning all the plaudits for 16bit playability was Anco's Kick Off, with its smooth,

· Flight simulators have traditionally been of a consistently high standard, but Mirrorsoft's Falcon showed there was still plenty to learn.

DRAGONS BREATH





199

mmortality. Legend has it that the secret is hidden in the Throne Room of the Great Castle atop Dwarf Mountain at the centre of the land of Anrea.

Breed a fighting force of dragons and conquer the villages of Anrea. Cellect taxes and buy marie inpredients from

Breed a fighting force of dragons and conquer the villages of Anrea. Collect taxes and buy magic ingredients from passing traders to cast spells. Finally, complete the Talisman that guides you to your ultimate goal.

Dragons Breath. A Fantasy Strategy game for up to three people.

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TRICKS 'N' TACTICS

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The Ultimate DUNGEON MASTER Guide

Part Two

THE TURQUOISE DOORS ON LEVEL 7

Door 1 – Gem of Ages; Sceptre of Life; Illumuley Door 2 – Dragon spit; A pair of Boots of Speed Door 3 – Crown of Nerra; Magic

Door 4 - Flamebain: Bolt Blade

KEYS There are many keys that must be

found to pass through the levels, the most notable of which are these: RA Keys - These are found on levels 3, 7, 9, & 12. These keys

levels 3, 7, 9, & 12. These keys open doors within level 7. Master Key – Found on level 12. Opens a door on level 7. Ruby Key – Found on level 11.

Opens a door on level 7.

Winged Key – Found on level 7.

Allows access to Dragon Level (14)

CLOTHING

There is a vast amount of ciothing to be found on all levels. Your characters should be fully dressed in the foughest items as they are found. Most important is the amour which should be worn by your front two characters (fighters). The most useful wom items are listed below.

Armour of Darc – Found on level

12. Makes you harder to see.

Armour of Lyte - Found on levels 10, 11, & 12. lighter in weight. Flamebain -+12 to Anti-fire.

Flamebain — +12 to Anti-fire. Leg Mail, Leg Plate, Mithral Aketon, Mithral Mail, Basenett, Helmet - these items are found throughout the dungeon.

It is advisable not to wear the armour - dropped by Chaos Knights, as it is cursed.

SHIELDS

Shields are numerous and important for protection. They should, where possible, be carried at all

Buckler
Small Shield
Wooden Shield (dropped by skeletons when they die)
Large Shield

SHield of Darc Shield of Lyte

EXPERIENCE LEVELS As you pass through the levels

you gain experience in the four disciplines: Wizard, Ninja; Fighter; and Priest. Your level of expertise increases in the following order: Neophyte

Novice Apprentice Journeyman Craftsman Artisan Adept Expert

NAME	SKILLS	HLTH	STAM	MANA	ITEMS
ALEX	App.NINJA	50	57	13	Sling
	Nov.WZARD				
AZIZI	Nov.FIGHTER	61	77	7	Hide Shield
	App.NINJA				2 Daggers
BORIS	Nov.NINJA	35	65	28	Rabbit's Foot
	App.WIZARD				
CHANI	Nov.FIGHTER	47	67	20	Moonstone
	App.WIZARD				
DAROO	App.FIGHTER	100	65	6	
	Neo.WIZARD				
ELUA	Nov.FIGHTER	60	58	22	Magic Box
	App.PREST				
GANDO	App.NINJA	39	63	26	2 Poison Dart
	Nov.WIZARD				
GOTHMOG	Jny.WZARD	60	55	18	Cloak of Night
HALK	Jny.FIGHTER	90	75	0	Helmet
					Wooden Club
HAWK	Nov.FIGHTER	70	85	10	2 Arrows
	App.PRIEST				
HISSA	App.FIGHTER	80	61	5	
	Nov.NNJA				
MDO	App.FIGHTER	48	65		Samurai Swon
	Nov.PREST				
LEIF	App.FIGHTER	75	70	7	
	Nov.PREST				
LEYLA	Jny.MNJA	48	60	3	Rope
LINFLAS	App.FIGHTER	65	50	12	Bow
	Nov.WIZARD				
MOPHUS	Jny.PRIEST	55	55	19	3 Foods
VABI	App.PREST	55	65	15	Staff
	Nov.WIZARD				
SONJA	Jny.FIGHTER	65	70	2	Sword
					Choker
STAMM	Jny.FIGHTER	75	80	0	Axe
SYRA	Nov.PRIEST	53	72	15	Apple
	App.WIZARD				
NGGY	Nov.NNJA	25	45	36	Wand
	App.WIZARD				
MUTSE	Nov.NNJA	45	47	20	3 Throwing Sta
	App.PRIEST				
MUUF	App.NNJA	40	50	30	Empty Flask
	App.PRIEST				
	Nov.FIGHTER	60	60	10	Torch

Master LO Master UM Master ON Master EE Master

ON Master EE Master PAL Master MON Master ARCH Master

SPELLS

LO UM ON EE PAL MON Elemental Influence: YA VI OH FUL DES 20

VEN EW KATH IR BRO GOR

Alignment: KU ROS DAIN NETA RA SAR

POTIONS

VI Health
VA Stamina
VI BRO Poison Cure
VA BRO Magical Shield
DES VEN Poison Potion
VA BRO DAN
VA BRO DAN
VA BRO NETA VItality
OH BRO ROS Dexterity
EUL BRO KILL
STrenoth

ZO BRO RA Mana
The character creating these potions must have an empty flask

Advanced Computer Entertainment 77

DI.

YAR IR

DES VEN

OH VEN

DES EW

YA BRO ROS

OH KATH DA

FUL BRO NETA Fireshield

OH FW SAR Invisibility

OH IR RA

DEC ID CAD Create

ZO CATH RA Create

SPELLS

(Group)

Doors

beings)

Fireball

Magic Vision

Create Light

Darkness

free power

BEASTS OF THE DUNGEON

There are many different crea-

tures to meet in your journey, It is

not always necessary to fight

them all, many can be run around.

lured into rooms and shut in, or

that they all have their own

achilles heels and respond to you

differently, some can be driven

away while others are unrelenting

in their pursuit and ferocity. The

following is a complete list of

creatures plus information to help

Mummies: The first monsters to

be encountered. Easy to kill on all

levels. Fight, range weapons to

Screamers: Easy to kill. Fight,

throw items, range weapons. Due

to the small damage they do to

you and their slow pursuit, these

creatures are ideal to practice all

combat skills on. One room

towards the end of level 4 regen-

erates them, an ideal place to

practice. They can also be eaten.

Blue Ogres: These creatures use

wooden clubs and can cause seri-

ous damage to your party early

on. Relatively easy to kill, not too

fast in their pursuit of you. First

Rock Monsters: Hard to kill and

poison you when they strike. Very

slow moving and thus ideal for

in/out attacks, also use fireball.

You can drop them into pits (use-

First found on level 2

kill. Found on levels 2, 3 & 8

All creatures are unique in

simply run away from.

you overcome them.

Paison Spell

Magical Torch Magical shield Opens Some Cloud of Poison Anti-Ghost Spell (All non-material Magical Footprints Lightning Bolt

Pink Worms: Ferocious creatures that will do considerable damage and poison you. I favour fireballs, range weapons and rear attacks. keep poison cures handy, found

only on level 4. Giant Wasps: These are amongst the fastest creatures you will meet. Don't bother with in/out attacks. Quite easy to kill, try to get off a fireball before they reach you. If forced to fight head to head, have poison cures handy. Found first on level 4.

Green tentacle monsters: These strange looking creatures

are fairly easy to kill and slow in their pursuit. They throw lumps of poison at you. Fireballs and range weapons are advised. Found first

Flying snakes: Ouick moving and fierce, these creatures inflict serious damage and poison your party. Not hard to kill, fight and fireball. Found first on level 5. Pixies: Most annoying creatures,

they do no damage, but steal whatever you have in your left hand. A fireball, or if you are quick enough, a swift blow should do away with them. They giggle just before they steal from you, out of interest, if you are asleep and any creatures attack you, you automatically awake - not so with pix-

Giant Rats: Oute resilient these beasts. They often attack in pairs doing considerable damage. In/Out attacks are advised, also range weapons, fireballs and lightning bolts. First found on level 9.

Beholders: Large tentacled eveballs that float above the ground. Be careful of In/Out attacks as they throw magic over some distance. I prefer range weapons and magic. Worth bearing in mind is that they are the only creatures able to open doors and gates.

Mini Dinosaurs: Very few of these will be encountered. Although slow they take a lot of hits and deliver a fare blow with

their tails. Fireballs and In/Out attacks reap their rewards. Found

Small Sorcerers: Not many to be found. They throw powerful magic at you but are quite easy to kill with magic and fighting. Bewarel When attacked they often transport a short distance, perhaps to your side, and hit you before you realise. Good Policy if they transport, turn on the spot quickly to look for them. Found first on level 9.

Golden Scorpions: Very resilient beasts, requiring a lot of fireballs and In/Out hacking. Beware of that poisonous tail, they move fairly quickly when in pursuit. Found first on level 10.

Insubstantial Triffid: A non-material creature that fades in and out of vision. While solid, a fireball can be used but dispell, disrupt, DES EW, and vorpal blade are preferred, they throw powerful magic at you. Found first on level 12. Giant Spiders: Although large, no great problem. A nasty bite but In/Out hacking and magic do the

job. The morningstar weapon is guite effective. Found first on level Chaos Knights: Another hard one to kill. Often attack in pairs doing a lot of damage to you. Fireballs are favoured along with dropping down pits where available. Don't wear the armour, it is supposed to

be cursed. Found first on level 12. Water Elementals: Pools of and doing damage, cast a calm spell (from wand) and in with the vorpal blade, DES EW, disrupt and dispell, a few swift blows on the horn of fear will cause them to retreat making attack easy. Notel They can pursue through closed doors by flowing underneath. Found first on level 11.

Fire Elementals: Non-material. non-moving creature, DES FW, disrupt, dispell, vorpal blade. Some regenerate after a short while. Found first on level 13.

Stone Golem: Only 5 of these exist, all on level 11 guarding the Tomb of the Firestaff. Very hard to destroy, taking many fireballs to get rid of. They drop a stone club which is too heavy to be of any

Devils: Found only on level 13 guarding Lord Chaos, they throw powerful fireballs and head to head combat is not advised. Cast fireballs at them from a distance.

Dragon: Average in its speed but unrivalled in its ferocity. Only one fireball is required to kill you. Chase him round the pillar on level 14 attacking his rear with many hits and much magic. Lord Chaos: The man himself!! All

conventional attacks are useless you must first enclose him in a flux cage and fuse him with the Firestaff, Many attempts may be required to kill him as he has the habit of transporting away throwing powerful magic.

False Grey Lord: If you retrieve the Firestaff and attempt to leave the dungeon you will meet this person, see what he does, but be advised, you won't like it.

SOME COMBAT TIPS TO HELP YOU GET THROUGH ALIVE

In most cases head to head combat is not advised, preferred is the allow you to get in the first blow.

Trapping creatures under gates is very effective because it damages them along with your fighting.

Magic Freeze Boxes and the Eye of Time should be put to good use, sometimes to escape, but better used when a creature is under a gate. This is very effective against the more resilient beasts (knights, scorpions, spiders, stone golems etc.).

Dropping creatures down pits is effective, but doesn't always kill them and they may step into a transporter, reappearing at a most inconvenient time and bad place. Try to weaken them first before dropping.

Always have VI potions on VI BRO (Anti Poison) potions when

Beware of retreating into dead ends. Even leaping into a pit may be more acceptable than fighting overwhelming odds, it

gives you time to recuperate. Frequent saving is advised. especially after a big fight or solving a lengthy problem to save you having to re-do too much if you

OK that's all for this month. In the next instalment we have a guide to the first eight levels of the

ful in 'The Room of the Gem'l. Found first on level 3. Ghosts: Fairly swift in their pursuit and can pass through closed doors. Use disrupt, dispell, DES EW, or vorpal blade. Found first

78 Advanced Computer Entertainment

NOT SO CHAOTIC CHAOS!

Would you believe it? There I ed it. One of them is lan Urguhart of London who has

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A TNT Survival Guide

We recently received a nlea for I help from Stuart Doe of Leicester. He writes '...your Tricks and Tactics section is my personal helpline, but I find it difficult to follow some items.... some of us have only just arrived on the scene and... the maze of phrases such as Poke, Bytes, Bits, etc. mean very little at most, and at worst nothing at all. So how about a section for beginners with some of the more common phrases and practices being listed and explained?

This is quite a frequent request so we thought that it was about time that TNT gave a bit of a helping hand to those readers who occasionally find the pages a little difficult to understand. If you are a more experienced reader then please bear with us, and remember that everyone has to

A PIG OF A POKE

The word POKE originated as an instruction in the BASIC computer language. It was the only way, in the original BASIC dialect, of

directly altering the contents of the computer's internal memory. Most home computer games end up as machine code programs (even if they are originally written in a high-level language like C or BASIC). This makes it difficult for the hacker to customise or adjust the program code. The easiest way to do this is by using the aforementioned POKE instruction to directly change parts of the program that perform specific functions (such as removing a life

when you crash your mega-blaster As an example, in a game written in Z80 machine code. for the Spectrum or Amstrad CPC for instance, there might be some instructions such as:

LD A.(LIVES) DEC A

LD (LIVES) A

These instructions are stored in the computer's memory as fol3A 00 80 30

32 00 80

Each one of these numbers (a hexadecimal number - in base 16) is known as a byte. Each byte has a number, known as an address, associated with it which indicates it's location in the computer's memory. The POKE instruction directly alters the byte at one of these addresses.

Never mind about the exact meaning of the lines of code above, suffice it to say that each time the computer comes to them it removes another life. To make a new version of the program in which lives are not removed we would have to replace the DEC A instruction with a NOP instruction. This makes the computer do nothing at all rather than removing a life. Supposing that the byte representing this instruction resides at address 32779. The instruction to replace it with the code for NOP (which is 0) is POKE

32779.0. There are two basic ways of using a POKE. The first, and easiest is to use a device like Romantic Robot's Multiface This is a hardware device that plugs into your computer's expansion port and allows you to pause the program that is running and directly alter sections of the program. Because of the ease with which this is done. I recommend that beginners who can afford to do so buy one of these.

If you do not have a device of this nature you must load the program code in such a way that the game does not run automatically, then make the necessary alterations, and finally start the game running manually. The methods of doing this vary from machine to machine. Over the next couple of months I will be showing you techniques for some of the popular machines as well as providing some more in-depth info on the contents of these pages.

I hope that has enlightened Stuart and others a little. One thing Stuart does say in his letter is 'please don't tell me to read a book as this only confuses me more'. Well, point taken, but I do recommend that you buy something like The Penguin Dictionary of Computers, which provides reasonably comprehensive definitions of the terms used here and in other publications.MORE SEGA SENSATIONS

ere are a few little pick-me ups for ailing Sega Master

On the last battle keep to the right of the screen when scrolling up. When bullets every eight seconds. When it yeah, the second to last boss spits



best way to gain points, so do differ-

As soon as the surfing event mal jumps (45°) and three or more through 360° about two or more

to the side of you jump anyway

if you were jumping a true obstacle. When there are parts of the the diagram. Over



in the BMX event tabletop the logs or the ground. Do back flips on the small



MEET THE MAESTROS

Now's your chance to confront the teams that code and publish the games you play...in

the ACE Conference program for Spring 1990. he ACE Conferences offer you the chance to join a small. select band of ACE readers who will be able to exert real produced in Britain. It's all part of the ACE 1990 Campaign: to within the games industry and between gamesters and the

be arranging with a British software house for a group of ACE readers to visit them, meet the people who produce the games. ask questions, and make their own coinions person. Check out known. Software houses are always keen to



WHAT HAPPENS Once you've been selected for a particular conference

(see What You Have To Do box), you'll be informed of the exact date and venue. You'll need to get there under your own steam so be sure to apply for conferences that aren't conferences listed are not in your area: there'll be more in the near future and we'll be covering the whole country. including Scotland, Wales, and Cornwall.

to make sure you're one of the ones they hear from.

Conferences normally start at 12.00 noon and carry on to around 4.30. You get a buffet lunch and refreshment, and when you leave we'll also thrust an exclusive may well have some goodies to hand out as well.

However, the real goodies will come from being able to talk directly to the software maestros themselves. They'll be ready to answer any questions you may have -

and to defend their corner vigorously if you get stroopy! Obviously no one likes to be slagged off for no good reason, but if you have constructive criticisms or strong feelwell received as paeans of praise.

And, of course, you'll also have the chance to meet members of the ACE Team, who will be just as keen to

ON THE PROGRAMME

Here are three conferences that you can apply for this month. They are mostly in the SW area - next month we'll

Activision Venue: Reading area from the bizane Little Computer People to the ingenious Cosmic Osmo and the rip-roaring Super Hang-on.

Meet the lads who've got the license to the superb Stun Runner, prodown with Hand Drivin's

Electronic Arts

Venue: Slough area you games ranging from the excellent Bands Tale series to Deluxe Paint and the sky-busting Interceptor



WHAT YOU HAVE TO DO

you might be interested in attending one, all you have to do is send us a postcard with your name and address clearly written, together with a daytime telephone number if at all possible. You also need to tell us which conference you would be interested in attending (one choice only, please) and your age. We need to know how old you are so that we can ensure a good

addition, we have to make a nominal charge of £5.00 to help cover costs. All places are allocate ed on a first-come, first-served basis. There is however an exception to both these conditions: as a special offer to subscribers we are giving them priority allocations for the first ten places in each conference, and they may also attend free of charge. You can find out how to become a subscriber on page 49 (and you get other benefits too - a free issue, a special newsletter, and

As soon as we decide on a time and venue for a conference, we'll select the lucky readers

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ACE NEW WORLDS

PAT WINSTANLEY CHECKS OUT THE LATEST FANTASY SOFTWARE

orget what I said a couple of months ago about the hack and slay element heing toned down in this follow up to the Heroes of the Lance. Having finally managed to get my hands on a joystick I've been hacked about and slain more times than I can count in the past few days. This game is hard! You begin by controlling the eight Compan-

ions of the Lance: Tanis the half elf. Caramon the fighter, Raistlin the mage, Goldmoon the cleric. Sturm the trainee knight. Riverwind the plainsman, Flint the dwarf and Tasselhoff Burrfoot the irrepressible Kender. As you travel you will also meet up with several non-hostile characters who may join your party and offer information and fighting skills

As you attempt to fulfill your quest you may come across a variety of useful items. Acquiring an item increases your experience points and once taken can often be used by



progressed very far, but as you can see from DOF, things are getting better - slowly.

CHAOTIC HINTS &

Any Dungeon Master fans out there with an ST who haven't vet bought Chaos Strikes Back - shame on you. For those who have but are stuck, a few tips:

Counting the start as level 0 there are five levels below and at least 4 above. Level (-5) has four main areas each of

which has at least one exit through a solid wall which leads back to the main junction. US GOLD continue the well received series of adventure games based around TSR's Dragonlance books with the sequel to Heroes of the Lance

accessing the menu. Apart from extra weapons and armour, rings and potions can be found to enhance a character's abilities or perhaps heal a nasty wound. Since Goldmoon's stock of healing spells doesn't last long you'd be well advised to find some potions fast

While weapons may be used in different ways and have different ranges this is not always particularly useful. Obviously, keeping your distance from monsters is desirable, but doing so in practice is well nigh impossible. As combat is joined the display changes from overhead to side on and any sense of direction you might have had flies away. This wouldn't be too bad if monsters only came at you from left. or right, but when they appear both in front of and behind you without warning you'd better

Count the screams when you fall to judge the depth of drop.

you'll find yourself apparently trapped between four walls - simply step backwards (and look out for worms!)

At the Parting of the Ways, leaving the relevant objects in the alcoves lets you change your mind.

There are an awful lot of false walls! Anyone found a use for the "key of B" yet? - I've a chest full of the things.

Hope you're having as much fun as me - cancel everything for a month.

start praying.

As for the monsters, on the overhead map they appear very similar to each other but in close up there's a wealth of difference. Draconians come in two forms, Baaz and Bozak, Of the two the unarmoured Bozaks are the more dangerous as they explode when killed injuring anyone too close. Other monstrosities include giant wasps, griffons, trolls and wyverns, Each monster type is best tackled by a specific strategy. Thus war dogs will fight to the death - unless you feed them in which case they run

With all this going on it's easy to lose sight of your objective, your quest to free the slaves of Pax Tharkas and recover the lost Wyrmslayer. I can't see too many players getting that far unless they have the patience of a saint. Although more of an arcade adventure than a sedate RPG (like Dungeon Master) a save feature is incorporated. Whether you'll last out long enough to make saving worthwhile is another matter. As an avid fan of the Dragonlance books

both Heroes and this follow up are something of a disappointment to me as both rely far more on joystick waggling than strategy. However those of you with faster reactions and more practice at karate style games will probably find Dragons of Flame a good mix of exploration and combat.

	LANDSCAPE85
	Although well drawn and colourful, movement in the
	ENCOUNTERS65
	There's just no time for tactical warfare. Party mem-
	CHALLENGE65
	There's not much challenge in any game that starts off almost impossible and stays there. It's far too
	hard for the average player.
	nard for the average player.
	SYSTEM75
	I dislike any system which gives no alternative to the
1	joystick.
1	
1	
1	ACE RATING
	720
1	720
1	
1	The Champions are simply too weak
1	to allow the player much satisfaction.
	It may be true /fantagy) life but as a

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by back in issue 25 Stee Cobe checked out a preview copy of SA's Hourd of Shadow. Now that the fished product is here, how does it measure up. Hourd of Shadow is presented as an IPO extended of Shadow is presented as an IPO extended of Shadow is presented as an IPO extended on the special locations. The system allows you to creat the adventure. Your character can be saved at the adventure. Your character can be saved at the od of the game for use in future period together with all the experience he or she has acquired while solving the Mound.

Character creation is quite separate from the game itself but has a profound influence on the way the plot unfolds and the difficulties you will face. You may choose from a variety of predefined characters which come with the game including an American-Irish cop turned Private



ADOW

Eye, a baronet with a passion for flying and a doctor's daughter making a living from writing novels.

Tyou don't fancy any of these you are free if you don't fancy any of these you are free to generate your own character who may be a prefession such as gentleman and enhancer or which include riding, haggling, escapology, archeology, anthropology, behography and astrology to name but a few. These skills wall determine the way you play the game as information is offered or withheld depending upon your skill range and strength.

Set is and around London in the 1920's the poter revolves around a mysterious and horrifying force which you first encounter at a seance. Although you are certain that the medium is a fake the apparently becomes possessed during the proceedings and with a strange voice warms one of your fellow patterns! that the bears the mark of the hound. Your comtains the proceedings are the proceeding and um as that of a woman encountered in horrify pay mysterious circumstances in America.

Together you set out to find more background at the Reading Room of the Eritish Museum while becoming more aware as time passes that you are both in deadly danger intially puzzles are few, as are objects and play revolves around meeting different people at certain times to glean information. In fact the opening part of the gamer rather leads you by the noise as you follow instructions given in the text. Only when you have collected at the information you need are you free to explore further added in a more traditional way.

One aid to exploring is the existence of mysterious magical gates which are scattered around the playing area and act as teleport Electronic Arts have finally released the definitive version of this RPG-influenced horror epic. The idea of a black magic, H.P. Lovecraft scenario set in the 1920's sounds like a sure fire hit…but is it?





Eldritch Games, who produced HOS for Electronic Arts: can Chris Elliott and Richard Edwards squeeze more out of the Timeline system next time?

points. Instead of tediously catching a train from East Angla to London you simply step on a gate, chart the correct phrase and woosh! The gates are simply drawn on the ground and although you can't create new ones, existing ones can be wiped away by enthusiastic graffiti

Control.

Timeline system teelf has a feet pot the both to sell the sell to sell the both to sell the sell

Interaction of the parser with the plot flow can cause frustration too. A command such as ENTER SHOP will be obeyed early in the game to put you inside a useful bookshop. Later (presumably when all required actions have been performed there) the same command elicits a plaintive I DON'T POSSIBLE. Similarly the very of responses when used with identical destinations and circumstances. Having spent a good deal of time wrestling with the game I feel that many improvements and refinements are required before Timeline is used for other plots. In the end, frustration with the system outweighed my desire to solve the plot puzzles. Having said that I do look forward to future releases on the system.

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ACE RATING 650

As a first attempt with the Timeline system Hound of Shadow is rather a mixture. This is not a game for beginners but could prov an enjoyable challenge for patient experi-

TIME

s text adventures fade into obscurity their place is being taken by icon driven systems which, while making play more attractive for the novice and younger player, can cause immense frustrations to those preferring more flexibility of input if

they're not well-designed. Set on the satellite Historiat as it travels. Set on the satellite Historiat as it travels its geocentric orbit around earth, your first task is to discover what you are supposed to be doing. It seems that thme machines can now give access to the future through which it has been discovered that notots are going to has been discovered that notots are going to have present. That's where you come in. By solving puzzles and talking to people you must gian access to various time zones to stool the

Screen layout consists of a small window shoring your location and other characters in the game against various horizontally scrolling backdrops. Beneath this is a row of icons which allow you to get, drop and examine objects, direct your character's movements and talk to other characters.

Objects themselves are scattered throughout the game – but you can't see them until

EMPIRE break the time barrier. Should you follow them?

you pick them up. The only indication you have is one of the icons – an eye which opens as you pass something of interest. Clicking on the eye then shows the object but doesn't say what it is. Although objects are well drawn, their identities can be something of a mystery. Thus what I thought to be a rather fat white ring to be worn actually turned out to be a certain

brand of mint.

The only way to discover information is by talking to people – simply move next to your potential victim and click on the talk icon. If the character has something to say to you they will do so but you can't ask questions or direct them (except occasionally by offering them objects.) Dialogos brings of a variety of percent of the control of the con

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behind like an unwanted puppy.

Having found the time machines you can travel back to well known scenes from the past which include the battlefields of the Crimea, the licons of the Circus Maximus and even a brush with Merlin. In all there are over 100 beautifully illustrated locations to explore and numerous characters to meet and interact with.

Apart from the niggle about objects, this should keep you puzzling happily for hours.

SYSTEM

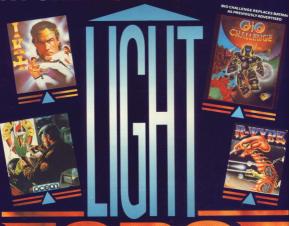
Despite the limitations of an icon driven system, game is easy to control with many nice touches.

ACE RATING

While *Time* is nothing exceptional its moderate difficulty level should appeal to most adventurers. Well worth a look.



A POWERFUL PACK OF FOUR



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Open Fire!

Space Impaders, naturally, is where the great treis starts. Devised by a group of Japanese psychiatriss into should all have been given Nobel prazes), it took the world by storm and simultaneously gave birth to anti-computer mania, providing endless old grammes and youthful arty-farties with the ammunition to denide computer, enderstaneously as "improfess." National provides and provides are provided to the provided of provided provided of provided provi computer entertainment as 'mindless blasting' -something they still do today, though the target has been replaced by games that are anything but mind

For gamers however, it was the beginning of the great strategy debate. Was it best to count 21 ships before a satelite appeared? Should you go for horizon-tal creaming as opposed to taking out the invaders in control block? How could you bert use the Sotrect vertical blocks? How could you best use the fortress-es? And how do you deal with a 'ship on the run' - that

0650

first end-of-level nasty Where did you first see

parallax scrolling? Blast into the past with Eugene

Lacey and the definitive

ACE History of the Shoot-

othing challenged Space Invaders in the Spring and immer of '79. While the puris's were pogoing to the ox Pistols the gamers were content to peel off row er row of Invaders in the never ending search for whither proceeds.

inferior of disasters in the more energic search of the layest possible with coverage and to come. On minus, that year language in glorous tellor. On minus, that year language in glorous tellor coverage and the second process of the search of the search of the search of the second process of the search of the second process of the search of the second process of the search on a continuous tellor graduates backward of the future the action took place against a get taked softward of the future the action took place against a get taked softward of the future the action took place against a get taked softward of the future the action took place against a get taked softward of the future the action took place against a get taked softward of the future the action took place against a get taked softward to the search of the

the manufacturers – the punters wanted more shoot 'em ups, better graphics and colour. They would not have to wait long. November '79 saw the launch of Atan Asteroids – a return to black and white graphics, tion all over the screen. It was one of the great

- rights for ETS



William's scrolling lunar shoot 'em



Super Zaxxon - 1983 Sega's beautiful 3D shoot 'em un

est games from the Golden Age - it featured an effective 'floating effect' (inertial that was later to be copied in stacks of Asteroids clones and in games like Lunar Lander, Omega Race and, years later, Oids.

May 1980 saw the next significant launch in the shape of Nichibutsu's Moon Cresta. This otherwise uninspiring rework of the old Galaxian game featured one major break through - it offered the first power up. By docking with another section of ship your fire power was increased. It was a fantastic mid-game reward, and increased the playability by giving the for downing aliens. This gameplay improvement was not missed by either gamers or developers and Moon Cresta remains a pivotal game in the development of

ENTER DEFENDER

1980 was a key year in the Golden Age for a much more important game - Defender. After Eugene Jarvis coded this game for the pinball manufacturer Williams the shoot 'em up would never be the same again. It was the first game that could be said to be truly 'cult' in a macho, esoteric way while at the same time com-

What made Defender so popular was the challenge it presented - and what made it tough was its speed. You had a radar to show you the oncoming aliens but even with this aid you needed lightning reflexes to compete. The game also introduced the first rescue were falling towards the planet floor as well as dealing with the aliens. The game was played on a horizontal plane - scrolling in both directions and with a 'wrap around effect which meant that if your ship disappeared off the the right it immediately reappeared on

Defender was also very loud. The colourful streaks of laser fire spitting out of your ship had a screeching sound effect. It was the biggest, toughest, noisiest machine in the arcade and, if you couldn't play it, you were nobody. Its influence on later games was incalculable: the radar, rescue, 'wrap around' effects being borrowed in countless designs - from Llamasoff's Attack of the Mutant Carnels to Logotron's Star Ray.

Spring-'81 saw the main competition in the shoot 'em up wars taking place on the West Coast of America with a flurry of new Atari designs battling it out with Defender. Battlezone offered the first 3D vector graphics in a tank battle simulation and became an instant hit - few who played it will forget the first time their windscreen shattered as they were blasted from

INTO THE HOME

By now Atari had realised the potential of converting their coin-op games for home use on their VCS system. Space Invaders, Berzerk, Defender, Galaxian and

Stor Trek - 1983





piece into a one screen shoot 'em up for the ST and Amior

Asteroids could all be played at home for about £30 a throw. It was the beginning of a link between the arcade and the home that would never be broken, It also made a fortune for Atari. By the end of 1983 they had sold ten million VCS's in America alone and several more million cartridges

Apart from providing Atari with the funds to develone vital, original game to the library of classic shoot 'em ups. The game was Star Raiders and was developed by Fernando Herrera. This was the first 3D, deep space shoot 'ern up. It was a precursor of Elite in that it had many of the same features, including a progressive rank scoring system and a galactic man. Ahove all, it gave us that swirling and swaying space battle action with the aliens emerging from the centre of the screen as tiny dots and growing larger as they

Meanwhile in the arcades those companies that didn't have a lucrative home system to peddle were not giving up the ghost. Centuri shipped Phoenix in March 1981, It looked a lot like Galaxian in its earlier levels but had one very important difference. After downing several squadrons of aliens you were confronted by a giant bird that you could only kill by lobbing sufficient missiles into its mouth. This was the first end-of-level nasty. Since Phoenix almost every shoot 'em up has had an end level nasty of some

ROMRS AWAY Stern were still active ,shipping the classic Scramble in April '81 and following it up with Super Cobra in July. Whilst not quite as big as Defender, Scramble was another highly significant game in the development of the shoot 'em up, It was the first game in which you had to have a high regard for flight controls - as well as a quick finger on the bomb and shoot buttons. Your ship had to be manoeuvred through an intricate level of narrow, undulating corridors and passages, blasting a path as you flew. This feature was the popular home systems of the day. It is still a feature of the scrolling shoot 'em up - from' Gradius to R-Type - flight control is as much a part of the chal-

lenge as blasting itself Midway clambered back into the limelight with Galaga at the beginning of 1982. Galaga represented another giant leap forward in the development of power ups. There were now several sections to be bolted on to your ship - including a unique power up feature with two ships joined together doubling the fire power at your finger tips.

CASEMORTHY CRAPHICS

In the four short years since Space Invaders the SEU had come a long way in game design. They were now simple left-right-shoot of Invaders. But the graphics were still fairly basic. In those days you went into the arcade to see what game challenges were to be had. It was not like today where you can stroll around and enjoy the graphical wonders on display without even

All this began to change in March '82. Sega launched Zaxxon. It was the first of the 'gasp look at those graphics' games. Its pseudo 3D play area featured a gull winged space ship flying over a city scape - through fences and over walls blasting the robots that came towards you. Its gameplay was pretty limited - but it looked fantastic. The games that were to follow had to look good too, and it was in this period that graphics began to take precedence over the design of the game itself. There were one or two exceptions like - Tempest and Gyruss but generally

Williams Moon Patrol was a summer hit with its superb lunar landscapes and 'parallax scrolling' - giving for the first time the authentic effect of the foreground moving faster that the land in the distance as the moon buggy rumbled along the planet surface. This has become so much a part of modern gameplay that it is now a dedicated graphics hardware feature

on modern 16-bit consoles. Metallic effects - later to be used to such great effect in games like Uridium - first surfaced in Atari Xevious in April '83 in what was the first of the modern style vertical shoot 'em ups. The landscape featured craters with shadow, changing terrain of forrest. desert and sea with metal domed alien structures for you to bomb. Power ups were to be gathered on the way with a giant installation to deal with at the end of each level.

Literally hundreds of games on a variety of systems have copied the basic design of Xevious - but as we can see Xevious itself was no more than a collection of the ideas that had gone before. It was not, in 'em up game play features. That would come later in 1984 and 1985 in games like Terra Cresta, and

LICENSE TO KILL

By late '83 licensing was beginning to effect the shoot 'em up in a big way - both at home and in the arcade. In September of that year Atari shipped Star Wars - a vector graphics challenge in which the player had to destroy the Death Star by flying down a tunnel and delivering the killer missile.

This was also the first use of speech synthesis in a game ('Let the Force Be With You''). Everyone thought that it was the beginning of a boom in talking games. The reality is that the computers were not powerful enough to incorporate speech to any extent - a fact that is still largely true today, though games like Stun Runner ('Yee-hoo!') still make effective use of short speech samples.



GUNG HO!

Despite US Gold's 1986 Christmas No

matter of shooting things and grab-4. Who produced the first Wild West



EARLY ALIEN BIRDS



coin-op shoot 'em ups for use

Sega were continuing to make things look pretty in 3D but still failing to innovate in the game design department with games like Super Zaxxon, Star Trek, and Buck Rogers. But sticking to the 3D knitting would later pay dividends later with games like Space Harri-

HOME HIGHS

By the mid 1980's the home computer was riding high. Video game consoles had crashed and shoot 'em up action sitched to the home computer as things also began to settle down on the coin-op front at the same time. Bug Byte had won the race to market the first game for the Spectrum by writing it in large part on the basis of the manual - without even seeing the computer. Naturally the game was a shoot 'em up, a rework of the daddy of them all entitled Spectral Invaders.

High spots in the arcades of '84 and '85 were the extraordinarilly pretty Salamander and its sequel Nemesis by Konami. These games were the forerunners of R-Type. A return to horizontal scrolling with stacks of power ups and tremendous effort put into the graphics of the creatures. Snakes, serpents, and quality the coin oos had made a quantum leap forward. It would take another two years before the home systems would start to catch up with the launch of the ST and the Amiga.

SATELLITES The use of power ups was becoming increasingly

sophisticated. Capcom's 1942 was a World War II aerial shoot 'em up. Flying up the screen you had to attack the Japanese shipping whilst taking out their fighters and bombers. First the power ups gave you additional fire power - but pretty soon you had additional planes ('satellites') accompanying you, flying on each wing, and the most powerful smart bomb you could imagine that wiped everything in a deadly circle of flames. 1943 was to follow in '86 and Flying Shark hit of the year was Gauntlet.

Atan's Gauntlet was the first four player shoot 'em, up with a Tolkien style scenario. It featured a 'buy

in' option, i.e you could join in the mayhem if there was a spare joystick by simply inserting your coins. You would then appear in the midst of the fight and could start blasting away against the trolls, goblins, and other assorted nasties that occupied the mazes.

WELCOME TO THE MODERN WORLD

If 1978 to '83 represented the Golden Age of shoot 'em ups then 1987 must go down as the beginning of the new wave.

The year opened with Side Arms and Soldier of Light — two shoot 'en ups that pushed the power-up to the limits. The programmers were working with new hardware which enabled them to draw and animate huge sprites in fall colour. New sound chys were also on stream which facilitated a huge range of sounds. As the year progressed these features became even better in games like Victory Road, Legendary Wings and Slan Fisht.

The developers were starting to innovate again as the air became filled with new ideas. Tato knitted three screen's together to make one constant play area allowing for brillant, long streaks of laser fire. The game was called Darus and was a huge two player hit – even if the vast size of the cabinet meant that a lot of arcades couldn't find room for it.

Darius was clear evidence of the increasing sophistication of the shoot 'em up. It featured a galactic map which the player had to become familiar with knowing the best route to take from level to level if he

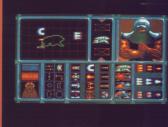


Commando - Capcom
The shoot 'em up that was number one in the home and
the arcades at the same time

was to have a good chance of clocking it. It also featured extremely tough end-of-level aliens that had to be systematically destroyed piece by piece in the correct order. The days of flying from left to right, collecting power ups, and blasting anything that moved were over.

Space Harrier in 1987 growed that Saga could make things move laster, prettier, and more conversingly in glorious 30 than anyone sits in the world. The addition of a hydraulic seed and the choice of a supersonic jet fighter proved an effective combination for Sega – giving them the consop hit of the year in '87 in the shape of Affectivener. Thanderlade followed the following year – with Sega also managing to squeeze in the driving game hit of the decade, Out flux.

Brillant as they are the Sega Shoot 'em ups offer title to the development of shoot 'em up game play other than the 'gaspability' of the graphics. They are more of a sight seeing tour than a challenging game. However, it's probably too early to juges Sega's contribution to the development of the shoot 'em up. They have an excellent regine in the shape of their 3D knowhow and we can only hope they start to develop me ? sophisticated scenarios to take advantage of it.



QUIZ ANSWERS

Champsonship in Munich, flying in roungslein from all ower the world. When the rights to ET were offered to the toy trade Alan executives sert. their lawyers along to the bidding with he come cheque. They paid 20 million bidlars for the rights to a game that.

(a) Atan's Minorie Command was learnthed in June 1990 and was the first to use a tracker ball. Certifyede, lefrich used a smaller trackball, first blasslad the bugs in the calebage patch in 1981. Extracator doesn't exist!

trany is aerodo. The same configuration sales pushed other graphics time than they had give below with the extraordinality pretty. Star Figuration of the produce test lateral grames — Star Celle the sequel to Delenders and Robotron — a fercise footbor short on any with Jains committee of the star of the star of the same short at the configuration of the same short is a Delender that has altituded short in the design right up to the precent day up to the precent day.

COut, Rainbow Arts

X-Out, Rainhow Arts

A shoot 'em up to play at home that is right up to date
with the latest developments in the results

THE FUTURE OF THE SHOOT 'EM UP

There are both hopeful and gloomy signs as the 90's gather steam. On the down side, stacks of copy cat Operation Wolf clones are about to hit the arcades. Games like Beast Busters from SNK, and Line of Fire from Sega offer little enhancements to the Taito origination.

On a more positive note term continue to lead the good light for a more intelligent and challenging. But good light for a more intelligent and challenging, shoot lent up. XMARISH yelfers, many more involvagings, that flow in the guard of wind caused by the movement of your ship. These contain deally the movement of your ship. These contain deally stags that can kill the serpent by blowing against them—forcing the player to develop his flight skills as much as his shorting skills.

Dragon's Breed introduces the first remote controlled power-ups by letting you send your dragon off to a certain position to breath his fiery breath in a lette mini mission whilst you blast away elsewhere on screen. You can summon your dragon back anytime you like, hop on him and fly off to another part of the

Best of all, R-Type II is about to ship to the arcades as we go to press. The game offers more carefully planned shoot 'em up action. It also adds an even more sophisticated power up in the shape of the Scatter Cannon.

Meanwhile, we can all accelerate progress towards the modern shoot 'em up by voting with our dosh. Seek out the good games and support them with your hard-earned dosh. If the history of the shoot 'em up proves anything, it is that the developers only start to innovate when their revenues start to fall.

R-TYPE - THE ULTIMATE?

The game that pushed the shoot ven-forward more than any other in '87 owed nothing to hydraulic chairs or other giramicks. It remains, in many controlsours' opinion, the definitive shoot ven \wp_1 R- $3 \wp_2$, by Irem. What makes it special in the combination of skills that it demands from the player, its varying of pool

The best exam "e of this is the giant green ship that must be destroyed – bit by bit – on level three. It's no good tooling it a more string away at it. You have to manipulate your power ups – throwing certain weapons for front to man as and.

The post exam "e of this is the giant green ship that must be destroyed – bit by bit – on level three. It's no foot front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for front to make a manipulate your power ups – throwing certain weapons for the power ups – throwing certain w

short with the same pay has been comprised to their maximum interactions entertainment. If pushes the short with the same pays tast moving colourful sprike Sadly, it seems \$\inp \text{3 taking a long time for the other developers to follow the Irem lead.

THE ACE STOCKMARKET102

in Britain's only games chart that tells you which titles are getting the best reviews, not just which titles the barrow boys are forcing onto the shelves.

GAMES YOU'VE GOT TO HAVE......92

The ACE updated guide to the games you just have to buy includes simulations, puzzles games, arcade action and more - everything for the discerning reader who wants to build up a collection of definitive titles..

MARKET ANALYSIS!106

Graphical representation of today's top performers, drawn from the ACE Stockmarket figures for this month.ls your favourite software house going up the spout - or down the tubes?

ACE READERS PAGES. Small ads for big bargains.

COMPO RESULTS..... Every so often Lady Luck showers the worthy reader with gifts. Find out if any of them are coming your way...

THE ACE PRIZE PUZZLE108 Man was born with brains, this is your chance to use them.

THE ACE PRIZE CROSSWORD

The industry's only computer-game dedicated crossword is

proving more popular each month since we managed to Which games are currently hitting the highspots? Find out start printing the right grids! Grab a pencil and see if you can win a prize.

THE ACE DIARY......100

All the events you need to know about in the coming month...and some you don't.

DEALERS GO WILD......107

Special offers, vouchers, deals, and hand-shakes. Find out where to head this month for an over (or under) the counter bargain.

ASK MEL!

We now have a full-time Pink Pages reader's liaison officer: Melanie Costin, who will always be on hand to help you out with problems about Reader's Pages and or Pink Pages mailorder difficulties. If you're a dealer and would like to place an advertisment in the pinks or arrange a voucher offer, contact Jerry Hall on 01-251 6222



THE GAMES YOUHAVE TO HAVE

SOMETIMES YOU KNOW YOU'VE GOT TO FACE UP TO THE TRUTH. YOUR SOFTWARE COLLECTION IS GETTING YOU DOWN, YOUR DOG'S SICK, YOUR FRIENDS ARE CONVINCED IT WAS YOU THAT LOST THE WINNING POOLS COUPON. YOUR MOTHER HAS DECIDED YOU NEED TO CHANGE YOUR IMAGE, AND YOUR GIRLFRIEND (OR BOYFRIEND) HAS JUST BEEN EATEN BY A ROTTWEILER...THERE'S ONLY ONE THING FOR IT...GO OUT AND GET A NEW GAME. AND TO MAKE SURE YOU REALLY SEE THE BRIGHT SIDE, HERE'S A LIST OF GAMES YOU'VE JUST GOT TO ADD TO YOUR COLLECTION.

ARCADE STYLE

Including coin-op conversions. Games with a high fun factor and plenty of addictive action feature in this category.

ARKANOID

Imagine . Spectrum £7.95cs • C64 £8.95cs £12.95dk • Amstrad £8.95cs £14.95dk • Atari XL/XE £8.95cs • Atari ST £14.95dk • MSX £8.95cs • IBM PC

Simple in concept: the player controls a bat at the base of the screen, The object is to keep a small ball in play, bouncdestroy formations of bricks in the top half of the screen. Eliminate all the bricks and move on to the next of 33 screens. ness. As a faithful coin-op comes out top, but for a nifty music, try ASL's Impact, which also builds up the difficulty levels

* ACE CLASSIC

BOUNDER Gremlin Graphics . Spectrum \$7.95cs a C64

£9.95cs £12.95dk •

form to another, high above the vertically scrolling landscape, Land on marked squares and you can stay aloft longer or gain a mystery bonus. Fill in a gap or hit one of however, and you'll lose a level help vary the pace. and those tough gaps really keep you coming

* ACE CLASSIC **BUBBLE BOB-**BLE

Firebird . Spectrum £7.95cs • C64 £8.95cs £12.95dk • Amstrad £8.95cs £14.95dk • Atari ST £19.95dk

platform screens, fighting sulating them in your bubbles to turn them into

juicy fruit. More firepower await as you reach the more difficult later screens. Enormously good fun, if a little on the cutesy side. Can also be played as one player * ACE RATED 958

CONQUEROR Superior · Archimedes Drive around in your very

own tank! Blast the enemy in close combat and plan your strategy for the campaign. This is a tricky game to get to grips with. find you soon become If you ain't got a 1Mb * ACE RATED 931

FLIMINATOR

Mauron & Spartners £7.99cs £12.99dk • C64 £9.99cs £14.99dk ● Amstrad £9.99cs £14.99dk • Atari ST £19.99dk • Amiga Graphically wonderful

roadway blast-em-up by John Phillips, which will driving on the ceiling. Though it's tough to get

* ACE RATED 904 **EXOLON**

Hewson . Spectrum £7.95cs • C64 £8.95cs £12.95dk • Amstrad

zontally scrolling shootto blast the foes, but if things are still too tough then you can grab an * ACE CLASSIC

NEW ZEALAND STORY

Ocean . Spectrum

Although pipped at the with Rainbow Islands, New immense fun to play, provides lots of varied action

* ACE RATED 875 OIDS Mirrorsoft . Atari ST

A magnificent Thrustish and a number of other edit facility that allows you to design your own

+ ACE BATED 969 PITSTOP 2

Epvx/US Gold . Available only on Epvx Epics compilation • C64 £9.95cs £14.95dk • IBM PC (in compilation with Win-

Games 2)

the computer or a friend. antee to give you hand cramp and your brain a

POWER-DROME

Electronic Arts . Atari ST

futuristic driving simulaenthralled for months to bly easy to get straight

DURDIE SAT.

URN DAY Exxos • Atari ST £24.95dk • Amiga

audio and visual. The conensures you'll enjoy playing each sub-game time and again. It's a little * ACE RATED 912

RAINBOW ISLANDS

£9.95cs £14.95dk C64 £9.99cs \$14.99dk Amstrad £9.99cs £14.99dk, ST £24.99.

tastic. The graphics and cutest arcade conversions of the year that

Microstyle, ST £24.99.

RVF offers a near endless supply of fast paced bike the route with your rider start after a crash. An excellent mix of

SPIDERTRON-Ere International . Atari ST £19.95dk

Guide your spider-like game area, collecting correct order. The built-in construction set means

SUMMER GAMES

Epyx/US Gold . C64 £9.95 cs £14.95dk • IBM PC £29.95dk

are of high quality but Games 2. One to six players can take part in high vault - and others - with lovely large graphics and * ACE CLASSIC

SUPER SPRINT Electric Dreams • C64

trum £9.99cs . Atari ST

and furious and it will take | plete some of the more tortuous circuits that appear later in the game. * ACE RATED 907

THRUST

Firebird . Spectrum £1.99cs • C64 £1.99cs Amstrad £1 99ee

trols and a large helping this budget title an absolute must. Flying down the tunnel walls. Tough enough as it is, but then you've got to make the heavy load slung under

your craft. Very mean, very addictive * ACE CLASSIC URIDIUM

Hewson . Spectrum \$8 95cs @ C64 £9 95cs £12.95dk • BBC

of scrolling shoot-em-ups: attacking ships while cially now that C64 ver-

ACE CLASSIC ZARCH / VIRUS

Superior Software Archimedes £19.95dk . Firebird (16 and 8-bit yer-Atari ST £19.95dk Some 8-bit versions under

shoot-em-up with such timelessly addictive gameinstant classic. Now the 16-bit versions have

* ACE RATED 981

ADVENTURES

After a brief surge of RPG related popularity, the traditional text-entry adventure is rapidly disappearing But for those of you who savour the powers of the imagination, the verbal twist, and the thrill of encountering other characters, this game genre still has much to recommend it. Here are some of the all-time great computer fantasies...

MS's best release since

Guild Of Thieves, Good

* ACE RATED

GUILD OF

THIEVES

Rainbird • C64 £19.95dk

Spectrum £15.95dk ●

Amstrad 6128 £19.95dk

Amiga £24.95dk ● Atari

- Magnetic Scrolls - man

very tricky puzzles. Power-

ful parser helps to create

* ACE CLASSIC

INGRID'S

Level 9 . Atari ST

Gnome Ranger, Level 9

program them very effec-

JEWELS OF DARKNESS

Rainbird • C64 £14.95cs

Spectrum 128 £14.95cs

£19.95dk • PC £19.95ds

Amiga £19,95dk Atari

Amstrad £14.95cs

BACK

ST £24.95dk • PC

BEYOND

Infocom/Activision . C64 £19.99dk • PC £24.99dk Amiga £24.99dk Atari

Infocom's attempt to mus-Coconut of Quendor in a software companies with gameplay, Text-only, but

with an on-screen mapping

CORRUPTION Rainbird • Atari ST £24.95dk • Amiga £24,95dk • PC £24,95dk Spectrum £15.95dk • C64 £17.95dk · Amstrad

This tale of insider dealwho prefer to wander works seeking treasure. up with traditional adven-

* ACE RATED 920 FISH Magnetic Scrolls ● PC

More gameolay than Cor-

Pawn. This is definitely

graphics and larger vocabthe original spirit of adventuring as you're likely to

* ACE CLASSIC

LURKING HORROR

Infocom/Mediagenic • C64 £19.99dk ● ST £24.99 | Arriga £24.99 •

college laboratory. Superb text-only game that defies you to play it after dark...

TIME AND MAGIK

Mandarin . Spectrum £14.95cs £14.95dk • · Amstrad £14.95cs

£14.95dk • Atari ST £19.99dk • Amiga £19.99dk • PC £19.99dk

This compilation of the Level 9 games, Lords Of Time, Red Moon and The Price Of Marik have been re-vamped with better parsing, bigger vocabular ies and pictures added. * ACE RATED 919

ZORK ZERO Infocom Versions due out about now. Watch this

Highly enjoyable with a variety of challenges that made this a real humdinger, but even so it games of the year so far. * ACE RATED

PUZZLES

If you're after a game that will pro' vide you with a real challenge. without necessarily requiring large doses of strategic thinking, then it's a puzzle game you want.

BONE-CRUNCHER Superior Software . C64 £9.95cs11.95dk • Amiga

its own. Highly recomfer to solve problems rather than shoot them * ACE RATED 948 -

BOULDERDASH

 Snectrum £2 99rs 064 £2.99cs ● Amstrad

A game that has everything - instant addiction long-term challenge, fre

AMIGA

extremely tricky puzzles. hidden in caverns, digging away earth and boulders to get tat them. Boulders. serious damage, while the jewels are often hidden by seemingly impenetrable walls. Complex but great sic you can't afford to miss in its budget incarna-* ACE CLASSIC

netic excitement as the

DEFLEKTOR Gremlin/Vortex • C64 £9.99cs . Spectrum

£7.99cs • ST £19.95dk

day here (not the spirit distries to connect a laser beam to a receiver and at

number of cells that are need to make full use of aim. Clear the first screen and you'll only have 59 more to do. Fascinating stuff that's horribly addic * ACE RATED 906 -

NEBULUS

Hewson e C64 £9.99cs £14.99 dke Atari ST

Guide pago to the top of eight towers using the spiral of platforms, lifts and route. It's a highly original tion and addiction, added to which is the rotary scroll, thus making it a + ACE BATED 943 -

SENTINEL Firebird . Spectrum £9.95 cs • C64 £9.95cs £14.95dk · Amstrad £9.95cs £14.95 dk • Atari ST £19.95dk •

strategy game played face of a planet dominatmentally you have to absorb energy while trying absorbing yours. A clean brain and fast trigger finger are both necessary in 10.000 possible land-* ACE RATED 963 -AMIGA

SKULL DIGGERY Nexuse Atari ST £19.95

Boulderdash clone that machine. Again (see Boulderdash above) you're digent screens - with a time Skulldiggery scores on to begin with and a choice entertaining two-player

* ACE RATED 919 - ST SPORE Buildog • C64 £1.99cs • Amstrad £1.99cs ● Spectrum £1.99cs

The winning combination of strategy, frenzied blastpriced release - what a bargain then to be able to * ACE RATED 919 -

TETRIS Mirrorsoft . Spectrum

£8.99 cs • C64 £8.99cs £12.99dk • Amstrad £8.99cs £12.99 dk • Atari ST £19.95dk • Amiga £19.99dk • IBM oddity, this Russian puz-

zier turns the obscure mathematical topic of packing into a cult game. One at a time, shapes fall able in their arcade aspects, but the brilliantly simple idea behind them means they're well worth

* ACE RATED 959 -

THINK! Firebird • C64 £1.99cs •

Amstrad £1.99cs ● Spec trum £1.99cs Originally released by Ario-

in which you attempt to connect four counters, horizontally, vertically or * ACE CLASSIC

Logotron • BBC £9.95cs £12.85dk • Amstrad £9.95cs £14.95dke Spectrum £7.95cs

Extremely tricky maze game involving the player

controlling two shields, and collecting masks through 15 complexity as you progress. Also in later stages, fish and chickens lie in wait, often blocking the masks and just waiting to fall on you and

bring your quest to a premature end. Later still, things hot up as bombs, transagainst you, Smooth scroling, simple graphics. this one requires planning to complete successfully.

SPECIALS

Original works that are simply unclassifiable feature in this sec tion.

ATF Digital Integration ● C64

£8.95cs £12.95dk • £12.95dke Spectrum

Excellent combat/flight change for Digital Integracialist. The emphasis is on * ACE RATED 956 -SPECTRUM

DARK SIDE Incentive • C64 £9.95cs £14.95dk • Amstrad £9.95cs £14.95dke

the Freescape programmore of an arcade chal-* ACE RATED 915 -

AMSTRAD

Firebird • C64 £14.95cs £17.95dk • Amstrad £12.95cs £14.95dx Spectrum £14.95cs e BBC £13.95cs £14.95/6 (available from Superior software)

Still the best space trading game. Elite set a standard

with plenty of variety to the game play. You can tively) safe systems, or in the galaxies' danger spots with your hold full of

doglighting, and as big a * ACE CLASSIC

INCREDIBLE SHRINKING SPHERE

Electric Dreams . C64 £8.99cs £14.99ds • £14.99dk ● Spectrum £9.99cs £14.99dk • Atari ST £19.99dk • Amiga

combine to provide wicked gameolay. Tricky puzzles cles will have you rolling * ACE RATED 923 -

M1 TANK PLA-TOON Microprose • PC

This is a welcome break from flight sims that pulsive nitpicker happy, a breadth of challenge and

MAGNETRON-Firebird • C64 £8.95cs £12,95dk . Soectnum

Puzzles and action Steve Turner style. Save the world by dismantling eight satellites. Steal parts from enemy droids to upgrade" ly make your job a little eas ier. The ideal game for a similar, new challenge.

* ACE RATED 904 . SPECTRUM

QUEDEX Thalamus • 064 £9.95cs

In this impressively challenging game you must steer a metallic ball through ten different of added features to make to the next screen, for example, and tackle the different screens or 'planes' in any order you wish. utterly absorbing play. * ACE RATED 934 -

SPINDIZZY Electric Dreams . C64 £9.95cs £14.95dk • Spectrum £9.95cs •

Tremendous stuff; steer tough obstacles and collect jewels, against a game landscape is a vast system of catwalks. ramps, towers and trampo drops - and NO safety rails ping them in the right order

* ACE CLASSIC STARGLIDER II

Rainbird . Atari ST £24.95dk • Amiga

One of the finest examples of a game using vector graphics to their full advantreatment and comes out looking every bit a winner You've got a large task to complete and there's plen-

* ACE RATED 927 - ST STAR TREK V Mindscape ● PC £34.99dk

● MAC £34.99dk

pretation of Star Trek yet. The gameplay provides absorbing and challenging Trekkies and an entertain * ACE RATED 930

TAU CETI/ ACADEMY CRL . C64 £9.95cs

£14.95dk • Amstrad £9.95cs £14.95dk • Spectrum £9.95cs • Atari ST £19.99dk • Amiga Flight simulator/shoot 'em

both incredibly smooth and well out together. The attention to detail is impeccable as you set off on space cadet. In Academy * ACE CLASSIC

TOTAL

ECLIPSE Incentive • C64 £9.95cs £12.95dk • Amstrad

Freescape system is a bit incredible game, in total eclipse you're batting against time back in the arcade adventurers who Freescape system is a god-

* ACE RATED 907 -AMSTRAD

WIZBALL OCEAN . C64 £8.95cs £14.95dk . Amstrad £8.95cs \$12.95dk . Spec

quer the 'colour creatures' dering the landscape grey and drab. One of the most playable games around.

ACE Classic

RPG

Role-playing games have exerted an enormous influence on modern game-styles. They combine the atmosphere of text adventures with the action of arcade games and the brain exercise of strategy - but their graphical presentatio tends to be weaker than other game genres. Gameplay centres around developing characters by raising their experience and skill levels in conflict with other, computer-controlled nasties. All that - and a quest too

plete, full game. A bril-

liant RPG purchase even

though it missed out on

* ACE RATED 801

DUNGEON

Electronic Arts • C64

Quoted as being a 'mile-

Dungeon Master offers

graphics and sound. All

going to make Dungeon

Master one of the best

* ACE RATED 949

POOL OF RADIANCE

● C64 £14.99dk

complex concept of the

puter, but they managed

ing for an enthralling

* ACE RATED 921

ULTIMA V

roleplaying adventures to

cnotic atmospheric

MASTER

THE BARD'S TALE II

The highly successful predecessor to Bards Tale III. BT II has the advantage of advance. THe Amiga verwhen you enter a temple you can update your

* ACE RATED 920 THE BARD'S TALE III Electronic Arts . C64

game offers a number of decessors (all of which are still well worth taking mated. Second, there are ranged combat routines which take careful opponents. Finally, the game's large and represents excellent value for

* ACE RATED 920 BATTLETECH

Battletech features some

Astonishing level of detail action, role play and in this role-playing influstrategy. In short a com-

• C64 £24.95dk • PC

enced epic. Travel round will enable you to defeat the forces of evil far underground, Superb romp.

tough challenges galore. * ACE RATED 928 WASTELAND Electronic Arts . C64

USA whopping mutant bunrole-playing epic. The

strategy leaves the cut, slash and spell scenario of * ACE RATED 921

BRAIN GAMES

Fed up with mindless blasting? Want a game that offers you an opponent who's worthy of your skills? Then this is your section...

CHESS MAS. TER 2000

Electronic Arts • C64 £9.95cs £14.95dk • Amiga £24.95dk • Atari ST £24.95dk • IBM PC

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ALL THOSE IMPORTANT DATES. RELEASES. AND BIRTHDAYS FOR FEBRUARY/MARCH. DON'T FORGET: IF YOU'VE GOT AN EVENT YOU WANT TO SEE PUBLICISED IN THE DIARY LET US KNOW

FEBRUARY

WEEK ONE

10 SATURDAY All Formats Computer Fair, New Horticultural Hall, London SW1 (bargains and cut-price soft-

SUNDAY 12 MONDAY TUESDAY

Chuck Yeager, first man to fly faster than the speed of sound, born this day in 1923. Licensed his name to Electronic Arts' Chuck Yeager Advanced Flight Trainer - a supersonic flight

WEDNESDAY

14

St Valentine's Day. The original St Valentine lived in the fourth century and there is nothing in his life history, or in the legends surrounding him to suggest why he might have inspired the practice of sending Valentines, which are more likely to have originated as an ancient pagan

THURSDAY Anniversary of the introduction of decimal currency, in 1971.

16 FRIDAY Birthday of John McEnroe, 1959.

SATURDAY Birthday of Barry Humphries, or should that be Dame Edna Everage, 1934.

WEEK'S RELEASES AT A GLANCE Firebird: P47 - Thunderbolt (Amiga, ST) Second World War air combat action, from the Jale

Star Wars Trilogy (PC compatibles) Compilation featuring the three Star Wars arcade

Mindscape: Gin & Cribbage (Amiga) Rainbird: Midwinter (PC compatibles) Mike Singleton's latest, a tale of strategy and confrontation in the new Ice Age.

SHINDAY National Day, Nepal Independence Day, Gambia Birthday of Bobby Robson, 1933.

19 MOND	
	10

20 TUESDAY WEDNESDAY

Feast Day of St Peter Damian, renowned for his severity. Known for reprimanding one bishop because he was indulging in that most frivolous of activities - chess.

FRIDAY 24 SATURDAY

WEEK'S RELEASES AT A GLANCE

Impressions: Renaissance (Amina, ST) Rainbird: Tower of Babel (Amiga) ACE rated at 930 last month, arcade puzzle game by Pete "Tau Ceti" Cooke.

Weird Dreams (C64 tape and disk) Explore your nightmares in this arcade adventure. Domark: Hard Drivin' (Archimedes) 3D racer featuring speed and stunt tracks (including the infamous loop the loop) translated onto the

SUNDAY National Day, Kuwait; Feast Day of St Ethelbert of Kent, the king who built the first St Paul's cathedral in London.

26 MONDAY TUESDAY Shrove Tuesday. Pancake time, everyone

28 WEDNESDAY Ash Wednesday - beginning of Lent; Birthday of Barry McGuigan, one-time world flyweight boxing champion and of Barry McGuigan's Boxing (Activision) fame 1961

MARCH

THURSDAY

FRIDAY SATURDAY Anniversary of the Throne (National Day),

WEEK'S RELEASES AT A GLANCE Cinemaware: Amiga (1Mb only); Ant Heads (It Came From the Desert data disk). Sequel to

the acclaimed B-movie inspired Cinemaware title. The ants are back in all their plutonium-distorted glory. Requires the original disk and a 1Mb Amiga to operate. Mindscape: TV Sports Basketball. Basketball

Firebird: P47 - Thunderbolt (Spectrum, C64, CPC) Second World War air combat action.

from the Jaleco coin-op.

SLINDAY Birthday of Kenny Dalglish, 1951

MONDAY Independence Day, Ghana: Daily Mail Ideal

Home Exhibition opens (continues until April 1) WEDNESDAY THURSDAY

FRIDAY 10 SATURDAY

WEEK'S RELEASES AT A GLANCE Electronic Arts: Powerdrome (PC compati-

bles) Futuristic racing game set in an outer galaxy

9

Domark: Hard Drivin' Extra Tracks (Amiga) More stunts, more twists and turns in this Hard Drivin's accessory disk Rainbird: Weird Dreams (PC) Arcade-adven-

ture in the relams of the subconscious. Tower of Babel (ST) Hard to define puzzle game, with an ACE rating of 930. Midwinter (ST) Mike Singleton's latest, a tale of strategy and confrontation in the new Ice Age.

GET YOURSELF IN THE DIARY!

Whether you're a software house with a launch or a charity with a lunch: let us know and we'll put you in the ACE diany. Write to the ACE Diany. 30,32 Faming. don Lane, London, EC1R 3AU.

Print deadlines: the second Thursday in every month for the issue on the shelves in the following month.

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THE ACE STOCK MARKET

THIS MONTH WE INTRODUCE SOME MAJOR IMPROVEMENTS TO THE STOCKMARKET LISTINGS, DESIGNED TO MAKE THEM EASIER TO USE AND EVEN MORE INFORMATIVE. AND DON'T FORGET: YOU CAN WIN A PRIZE IF YOU CAN PREDICT NEXT MONTH'S TOP GAMES AND SOFTWARE HOUSES

his is the fourth time the ACF Stock. market has been published, and we've made some big changes But first, are you confused? Well, sit down and relax...because it's all very simple. Here's a brief explanation for everyone who's still chewing their fingernails off. It's in two parts. first, how the Stockmarket works, and second. how you can win prizes.

HOW IT WORKS

Each month, ACE researchers read EVERY major British computing magazine. They note down ALL the review ratings for the games reviewed that month, together with the name of the software house, the machine the game runs on, and the name of the magazine the

They then feed this information into a spreadsheet and calculate the data that makes up the charts you see on these pages (called 'Counters', because this is a market, right?').

There are three counters that deal with games. First, there's the MACHINE COUNTER. This tells you which games have been getting the highest review marks for each machine.

Remember - unlike other charts, this one is based on reviews, not on sales figures. This makes it much more useful to you, since you can see at a glance which games are likely to be the best buys for your machine. Of course, in an ideal world, the games that the get the

best reviews should get the most sales, but (for various commercial reasons) this doesn't happen and as a result charts based on sales are NOT a good guide to what you should buy - they're just a guide to what the shops are

In addition to the Machine Counter, there's also the two processor counters, which simply show you which are the best reviewed 16-bit some interesting conclusions about 8-bit and 16-bit games by comparing these two charts. Finally, there's the COMPANY COUNTER.

This one is a little more complicated, but still it's really pretty basic stuff. The aim of the Company Counter is to tell

you which software houses are currently producing the most successful titles. Each company has a THIS MONTH rating, which is calculated according to the reviews its games have received during the current month. A company whose games are all rated highly will have a high THIS MONTH score

The next rating in the company counter is the SHARE PRICE. This simply tells you how well a company is doing relative to its past performance. If a company gets worse reviews this month than last month, its price will drop. If it gets better reviews, the price rises. Companies who get no reviews at all have their price decreased each month until they get reviewed

Associated with the share price is the +/rating, which simply tells you how much that company's share price has risen or fallen this

Finally, there's the company's INDEX RAT-ING. This shows how well a company's games have done this month compared to the average score gained by all the other games reviewed. It's this rating that determines the age score for ALL games reviewed each month is called the SOFTWARE INDEX and it's printed at the top of the Company Counter

In other words, if a company's Index rating shows a + figure, that's because its games have scored higher than the industry average during the current month. A minus figure shows that its games have scored less well than the

That's all there is to it. Now all you need to page 106, as well as seeing some of this mon-

NOW IT'S EVEN EASIER TO WIN!

Yup, you now only need to fill in your predictions for the top three entries in each chart (it used to be five). And you don't even have to get them all right to stand a chance of winning. See page 106 for details. The entry form is on page 112.

THE COMPANY COUNTER

To get into the share price listing, companies need to be releasing products reviewed by magazines. To see their fortunes rise, they need to be consistently improving their product. In the short term, the 'one-hit won-

der' will seem to do well; in the longer term, consistency will pay off. Companies rating 100 and marked * are 'new entries'. They haven't featured in the Company Counter

before, and a company's launch share price is always 100. Companies with an existing share price, but who have no review ratings at all in a particular month, will lose ten points

from their share price for each month that no reviews appear.

This charts the performance of a company's titles relative to the Soft ware Index rating. This figure is an overall average mark for all the reviews given in the previous month. The Software Index shows how many marks above or below the average rating each company's titles rated

THIS MONTH'S SOFTWARE INDEX RATING: 71.58

Origin's leap to the top of the ratings comes from an enthusiastic reception to a pair of Commodore 64 titles - not an area the company is best known in. New placings on the Stock Market this month include Dynamix and FTL - Chaos Strikes Back appears to be living up to expec-

This month, we also see the first appearance of the Software Index tations. They'll find that life is tough at the top 4.6

Index					Pandora	83.5	nia	100°	11.92	US Gold	76.73	+0.13	100.17	5.15
Origin	97.5	nia	121.97	25.92	Sierra On-Line	81.5	nia	100°	9.92	Rainbow Arts	76.18	+7.53	110.97	4.6
Dynamix	96.5	n/a	100°	24.92	Empire	81.25	nía	100°	9.67	Firebird	76	+0.34	100.45	4.42
FTL	92.83	n/a	100°	21.25	Ocean	81.07	-5.97	93,14	9.49	Psyclapse	75.59	nia	100*	4.01
Delphine Palace	89.5	+4.25	104.99	17.92	Innerprise	80.67	nia	100°	9.09	Screen 7	75	n/a	100*	3.42
Beau Jolly	85	n/a	98.46	13.42	Electronic Arts	80.42	-0.07	99.91	8.84	UbiSoft	74.64	+10.09	115.63	3.06
CP Software	85	n/a	100*	13.42	Hit Squad	78.96	+13.71	121.01	7.38	Virgin	74.26	-0.08		2.68
Blade	84.75	+5.08	106.38	13.17	Microprose	78.33	-4.5	94.57	6.75	Activision	73.93			2.35

THE PINK PAGES 103

Rainbird	73.83	-7.73	90.52	2.25	Players Premier	61.54	+19.87	147.68	-10.04
Gremlin	72.22	-3.01	96	0.64	Players	61	nia	100"	-10.58
Mindscape	71.9	-8.51	89.42	0.32	Titus	60.06	nia	100"	-11.52
Domark	71.44	-0.23	99.68	-0.14	Magic Bytes	60	nia	100°	-11.58
SSI US Gold	71.33	+7.5	111.75	-0.25	ARC	58.5	nia	100°	-13.08
Addictive	71.2	n/a	100*	-0.38	Kixx	58	+1	101.75	-13.58
Anco	70.67	-2.12	97.09	-0.91	Encore	56.9	+9.59	120.27	-14.68
SubLogic	70	n/a	100°	-1.58	Starbyte	56.67	nia	100°	-14.91
Accolade	69.21	-8.84	88.67	-2.37	CDS	55.5	-7.97	87.44	-16.08
Epyx/US Gold	69	n/a	84.01	-2.58	Alternative	55.06	+7.06	114.71	-16.52
Code Masters	68.13	n/a	100"	-3.45	Actl Screenshots	45.75	nia	64.89	-25.83
Mastertronic	67.3	n/a	106.83	-4.28	Artronic		nia	47.41	nia
Infogrames	67.24	-6.73	90.9	-4.34	Bethesda		nia	80	nia
Psygnosis	67	4.33	93.93	-4.58	Byte Back		nia	74.37	nia
Grand Slam	66.75	n/a	116.43	-4.83	Digital Int'n		nia	85.6	nia
Readysoft	66.75	n/a	100°	-4.83	Dinamic		nia	116.72	nia
Wicked	65.5	n/a	103.56	-6.08	Gainstar		n/a	91.97	nie
Elite	65.33	-4.44	93.64	-6.25	Image Works		nia	89.53	nia
Digitek	65	n/a	100°	-6.58	Impressions		n/a	79.78	nia
Leisure Genius	65	n/a	100"	-6.58	Infocom		n/a	65.21	nia
Smash 16	65	-15	81.25	-6.58	Level 9		n/a	83.91	nia
Hewson	64.54	-4.96	92.86	-7.04	Microlllusions		n/a	87.41	nia
16-Blitz	64.33	+26.33	169.29	-7.25	Novagen		n'a	80	nia
Edge	64.19	-2.56	96.16	-7.39	PSS		nia	45.7	nia
Logotron	63.75	-5.45	92.12	-7.83	RAD		n/a	101.82	nia
Tynesoft	62.31	n/a	100*	-9.27	Reline		n'a	100.5	n'a

Pro-Tennis from Ubisoft has done well in ACE this month. How will it affect the charts next month? Watch out for Microprose's Midwinter, too - it's bound to have a major impact on that company's position on the Company Counter and in



THE MACHINE COUNTER

AMIGA RATINGS AMSTRAD CPC RATINGS PC-COMPATIBLE RATINGS Operation Thunderbolt Stunt Car Racer Future Wars War Machine Ocean had last month's highest rated game with Ghostbusters II hangs onto the top slot, demon-The poor PC turn-out last month may just have been a glitch; PC owners have something to strating that the early reviews caught the essence takes over the top slot. Stunt Car Racer and It of the game - on this format, anyway. Scapeghost

always a strong machine for graphical adventures.

ATARI ST RATINGS

highly rated.

Came from the Desert continue to attract high **COMMODORE 64 RATINGS**

Ghouls'n'Ghosts	US Gold	87.38	Chaos Strikes Back	FTL	92.8
Turbo Outrun	US Gold	86.10	Tower of Babel	Rainbird	91.
Bushido	Firebird	78.48	Future Wars	Delphine/Palace	8
Sim City	Infogrames	74.5	Stunt Car Racer	Micro Style	8
Eye of Horus	Lonotron	68.25	Ghouls'n'Ghosts	LIS Gold	845

It was a poor month for C64 releases - in terms of quality rather than quantity, with only the two US version of Turbo Outrun, it was the poorest format for Ocean's rival driving game, Chase HQ.

There were high expectations of Chaos Strikes Back and the verdict is that it doesn't disappoint. Rainbird too can usually be relied on to produce set the world alight. Tower of Babel has been very

Indianapolis 500	Electronic Arts	91.09
Their Finest Hour	US Gold	87
Die Hard	Activision	85.5
Neuromancer	Electronic Arts	85
Populous	Electronic Arts	83.5

threatening to dominate this chart; especially as it

SPECTRUM RATINGS

hase HO	Ocean	
shouls'n'Ghosts	US Gold	88.67
lard Drivin'	Domark	87.85
luper Wonder Boy	Activision	86.25

Chase HQ may have been received poorly on the

THE 16-BIT COUNTER

The follow-up to Dungeon Master goes straight in at number one on one for

Chaos Strikes Back	FTL	ST	92.83
North and South	Infogrames	Amiga, ST	91.5
Laser Squad	Blade	Amiga, PC, ST	90
Operation Thunderbolt	Ocean	Amiga	89.94
Stunt Car Racer	Micro Style	Amiga, ST	89.5
Future Wars	Delphine/Palace	Amiga, ST	89.5
Drakkhen	Infogrames	Amiga, ST	87.34
X-Out	Rainbow Arts	Amiga	86.7
Ghouls'n'Ghosts	US Gold	Amiga, ST	86.24
Indianapolis 500	Electronic Arts	PC	86.17

Bubbling under: Batman - the Movie, Maniac Mansion, It Came From the Desert and Battle Squadron

THE 8-BIT COUNTER

There are some great value budget games arou titles here at ú2.99 rated at over 80%. Ocean's Operation Thunderbolt is proving a huge success on all formats.

Great Escape	Hit Squad	C64, Sp	89.33
Dizzy III: Fantasy World	Code Masters	CPC, Sp	88.25
Operation Thunderbolt	Ocean	CPC, Sp	86.21
Renegade	Hit Squad	CPC, C64, Sp	84
Untouchables	Ocean	CPC, C64	83
Hard Drivin'	Domark	CPC, Sp .	83.75
Saling	Mastertronic	CPC, C64, Sp	81.67
Ping Pong	Hit Squad	CPC, C64, Sp	78.44
Ghouls'n'Ghosts	US Gold	CPC, C64, Sp	77
Turbo Outrun	US Gold	CPC, C64, Sp	77.2

Bubbling under: Toobin', Dan Dare III, and Footballer of The Year III.

ISS	VISA				
TITLE	AMIGA	IBM PC	8		
Afterburner		22.50			
Altered Beast	18.99		14.9		
Aquanaut	17.50		17.5		
Armada			17.5		
Barbarian (Palace)	7.50		7.5		
Barbarian/Antiriad		20.99			
Barbarian II (Palace)	17.50	20.00	17.5		
Bands Tale	7.50				
			14.9		
Battle of Austerlitz	18.99		18.9		
Battle Chess	18.99	18.99	18.9		
			18.9		
Bloodwych Data Disc	11.25				
	17.50	17.50	17.5		
	22.95	26.25	22.9		
Bridge Player 2150 Galactica	20.99	20.99	20.9		
		18.99			
Budokan		18.99			
Cabal			13.9		
Captain Blood	7.90		7.5		
Carrier Command	17.50	24.50	17.5		
Cartooners					
Chaos Strikes Back			18.9		
Centre Fold Squares		13.99	13.9		
Chase HQ	18.99		14.9		
Conflict Europe	18.99	18.99	18.9		
Daily Double Horse Racing	13.99		13.9		
Damocles	17.50		17.50		
Deluxe Strip Poker	13.99	13.99	13.90		
	14.99		14.9		
Drakken	22.50	22.50	22.50		
Dungeon Master					
	7.50				
F15 Strike Eagle II		24.50			
F16 Combat Pilot	17.50		17.50		
F19 Stealth Fighter		27.99			
	18.99		18.90		
Ferrari Formula 1	18.99	18.99	18.90		
Fun School 2 (Educational)	13.99	13.99	13.96		
Gazza's Super Soccer	17.50		17.5		
Galdregons Domain	13.99	17.50			

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HOW TO

the ACE Stockmarket.

o you want to get your hands on some of those Stockmarket prizes, eh? Or possibly even the £150 jackpot? Here are a few tips...

£150 jackpooft Here are a few tips... First, the prizes Hemselves. There are seven prizes swallate each month. These go to the seven readers who get CLOSEST (you don't have to get them exacts) right to predicting the too three games in the correct order in each of the six machine categories (CPC, Arriga, ST, C64, PC, Spectrum) and the top three software houses (again in the corrector order) on the Comman Counter

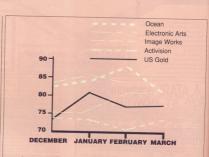
Remember – you don't have to get them exactly right to win a prize, you just have to be the closest. If, however, you get all three right and in the correct order, you stand to win the jackpot prize of £150 worth of software. Any draws are decided by pulling the sied entries ou at a hat.

Of course, predicting west month's positions that easy, however, flyuric selection provides that the property flyuric selection against, you'll stand good charact. For example, last month was a reasonable bet that FTL's Chancy Strekes Back would be reviewed his month and get thigh ratings. Shraightaway you've got one potential entry for the top fire. Looking wheel for the most more, last wer ligh you a to the prediction of the property of the property of the prediction of the property of the prediction of the property of the property of the property of the prediction of the property of the prediction of the property of the property of the prediction of the property of the prope

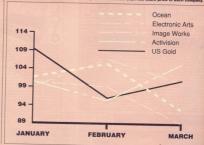
Of course, if you're really keen, you can be supplying the performance of common to you have been performed or the supply looking below one part to succeed the supply looking below of the supply looking the supplying to provide the supplying the supplyin

Just a word about deadlines. The ACE Stockmarket figures are compiled during the two weeks following the first Thursday of each month and appear in the issue that comes out on the first Thursday of the following month. So this month's figures were put together between 4th and the

So get to it: the form's on page 112.



These charts show the erratic performance of five major software houses during the last few month. The top chart shows average review ratings and the bottom chart the share price of each company.



ACE DEALERS

WE KNOW HOW IT IS - YOU'VE SPENT MOST OF YOUR HARD EARNED DOSH OVER CHRISTMAS AND THE NEW YEAR, AND NOW ALL THERE IS LEFT TO DO IS HUDDLE ROUND A CANDLE LOOKING MISERABLE. OF COURSE THE OCCASION-ALCHUNK OF DRIED BREAD AND CUP OF DIRTY RAINWATER ARE NO CONSOLATION - YOU'D MUCH RATHER HAVE THE LATEST SOFTWARE SENSATION INSTEAD. SO HOW DO YOU FIND THAT UNIMISSABLE BARGAIN OR SPECIAL OFFER? LOOK NO FURTHER THAN THE ACE DEALERS PAGE OF COURSE.

ACE - GREAT DEALS

Many retailers are trying to have a breather this January sales. There are fewer games being released, and the next big batch of promotions and competitions will probably take place round about Easter time.

VIRGIN SALE Despite the kill, the Virgin

Games Centre sale continues until the middle of this month, with a whole host of special offers, so pop in to see what they have on offer Once the sale stock has been cleared away, Virgin hopes to have a special promotion set up with Microdetails available as ACE went to press, I'm afraid. but it should be worth

FREE FERRARISI Accolade's model Ferrari promotion, linked to Test Drive II - The Duel.

continues, with the Northern Computer Shop chain offering a Matchbox model car with every copy of the game. All names go into the prize draw for a Burago model of a 1987 Ferrari F40 mounted on a wooden plinth, complete with moving parts.

SOMEWHERE. OVER THE RAIN-BOW

Computer Shops are also working on some forthcoming special

ed Rainbow Islands Inow being released by Ocean) and Pandora's

your local Computer Shop branch (locations below) for details.

T-SHIRTS AND DRAWS

Buyers in Birmingham and Newcastle should drop into their local branch of Microbyte on Saturday, February 17, Spend over £15 on any Ocean titles in Birmingham on that day, and you'll get a Tshirt and poster to so with the game. Plus your name will go into a draw

with mystery prizes available to be won. **BUDGET DAY**

In Microbyte Newcastle. February 17 is a special budget buyers' day, With

can also buy any 8-bit budget game for just £1. model car is also up for

grabs in a one-day competition **ACE DISCOUNT**

Microbyte is also offering readers of this page a

10% discount on goods bought at any of its sent the yougher below when you make your ourchase. Happy bargain hunting

WHERE IT'S AT ... You can find Computer Shop putlets in the Arr. dale Centre, Manchester

Newcastle, Leeds, Preston, Sunderland. Stockton and Nottingham. Also part of the Computer Shop chain

are the two Games Store outlets in Carlisle and Middlesbrough, which stock role-playing games as well as computer software

There are Microbyte stores in the Arndale Centre. Manchester: the Broadmarsh Centre, Nottingham: Kirkpate Wakefield; the Metro Centre, Gateshead; the Greenmarket, Newcastle Upon Type: the Kirkgate Centre. Bradford; the Bull Ring

the County Arcade, Leeds. Virgin has its Games Centre outlets on London's Oxford Street (at Megastore, and at no 100) and Bristol, and also in Megastores in Birmingham, Brighton, Dublin, Edinburgh, Glasgow (at

Centre, Birmingham; and

Leeds, and Nottingham. One of these must be near you!

All offers and promoability of stock. Although we do our best to ensure our dealer promotion information is accurate at the time of going to press. ACE cannot take any responsibility for changes plans.

FREE PUBLICITY!

Attention dealers! motions, competitions, special offers, etc, a secret. Tell us at ACE and we'll tell everybody else.



PINK **PUZZLERS**

PUZZLE RESULTS

First off some results and solutions. The winner of Prize Puzzle 16 was Chi Chiu Cheung, St. Anns, Nottm. £10 will shortly be winging its way to you, Chi. Puzzle 17 never hap pened (copsi), but Mr. K. A. Siddlqui of Chiswick, London, also receives

Next month we'll bring you the solutions and prizewinners for the the Feb'90 Prize Cross-

tion entry from Anne-Miriam Maczewski of many: "Why don't you make your forms so small card? It would cost me

Well Anne, the short answer is that we really competition answers on a postcard rather than the standard form. As long as you give us all the information that is requested as it's clear, there is no

problem for us. Obviously gram like a Crossword return the whole form

(unless of course you want to copy it out in miniature on your post-

SOLUTION TO PUZZLE 20

about 15p less!" 1 game at £21.73 **SOLUTION TO PUZZLE 19** MARCH '90 PRIZE PUZZLE

The multiplication was

The oroblem involved finding two four-digit numbers which produced a long multiplication which had the digits 2 to 8 numing diagonally downwards from the top righthand corner. In addition, each of the four sub-products lines 3 to 7 of the multipliaction) comprised five digits.

Because the digits 'Z' and '3' in the top two lines are 'fixed' it is only necessary to consider the remaining three digits in each of these lines. In the program this is done in lines 100 and 120, the known digits being inserted into the correct positions by means of the two string vari-

The four sub-products are generated from these two values and are stored in the strings CS to FS in turn. As each is computed it is tested to ensure that it has a length of five characters, the third character in each case agreeing with the known digits on these lines of the sum. Finally, the full product is calculated (line 260) and is

tested for the presence of the digit '8' in second place. FOR R-100 TO 999:85-STRS(R)

100 8\$-8\$+*2*

120 FOR R=100 TO 999:85-STRS(R) 138 B\$=LEFT\$(B\$,2)+"3"+RIGHT\$(B\$.1) 140 C\$-STR\$(UAL(A\$)*UAL(MID\$(B\$,4,1)))

150 IF LEN(C\$)O5 THEN 300 160 IF MID\$(C\$,3,1)0 '4' THEN 300 178 D\$=\$TR\$(IIRI (R\$)*IIRI (MID\$(R\$.3.1)))

180 IF LEN(B\$)05 THEN 300 190 IF MIRS(RS 3.1)O '5' THEN 300

200 ES-STR\$(URL(R\$)*URL(MID\$(B\$,2,1))) 210 IE LENGES OS THEN 300 IF MIDS(ES, 3, 1)0 "6" THEN 300

230 F\$=STR\$(UAL(A\$)*UAL(MID\$(B\$,1,1))) IF LEN(F\$)O5 THEN 300

250 IF MID\$(F\$,3,1)0"7" THEN 300 GS-STRS(URL(BS)*URL(BS) 260

IF LEN(6\$) OR THEN 300 270 280 IF MID\$(6\$,2,1)0"8" THEN 300

PRINT 85: ":BS 290

NEHT B 300 NERT B

The winner is Osman Lilyan, Kettering, Northants

Set by Archie Medes

The cover date of this issue is March, but if you were quick enough to the newsagent you should have managed to obtain your copy in time for Valentine's Day, So

here's a puzzler in the spirit of things:



Enclosed within the card were the following instructions: Can you find the square root of Valentine? To do so, simply substitute each of the letters in the word Valentine' for a digit - a different digit for each differing letter. the same digit where any letter is repeated. If you have done this correctly the square root of this value will be a whole number. There is only one possible solution provid

Unfortunately, in the intervening twelve months ('ve forgotten just which of the digits was represented by E'. But, even so, you should still be able to solve this puzzle Henry bought 2 cassette players at £15.99 each 2 teddy bears at £8.85 each 1 Christmas hamper at £17.59 and 1 shirt & tie set at £11.00

In the listing each of the presents is assigned its price calculates every possible combination of gifts possible. Each loop (except for the last one) starts with a value of zero and extends to the maximum number of gifts of that final loop, which represents the number of shirts bought commences at 1 because we know there is at least one

nation of gifts, any which come to eactly one hundred

PI 8VER-1500 20 TEBBY-885 30 DISC=599 40

50 BOTTLE-947 HRMPER-1759

70 SHIRT-1100 FOR P=0 to 10000/PLBYER

FOR T-0 to 10000/TEDDY FOR B=0 to 10000/BISC

FOR 6-0 to 10000/GRME 1-40 FOR R-0 to 10000/ROTTLE FOR H=0 to 18000/HRMPER

FOR S=1 to 10000/SHIRT Z - P*PLRYER + T*TEDDY + D*DISC +

G*GRME+B*BOTTLE+H*HRMPER+S*SHIRT IF Z=10000 THEN PRINT P: ":T:" ":D: " ":6:" ":8:" ":H:" ":\$

198 NEHT:NEHT:NEHT:NEHT:NEHT:NEHT

The winner is David Wood, Cleethorpes, Sth Humber

RCH	90	PRIZE	PUZ	ZLE	ENTRY	FORM

NAME:	
ADDRESS:	
TELEPHONE:	

ANSWER-Send to: March '90 Prize Puzzle, ACE Magazine, Priory Court, 30-32 Farringdon Lane, London. EC1R 3AU Entries should be postmarked no later than 28th February 1990.

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No TV Modulator in this Pack



PINK

BANK ON ANCO

Here it is, the moment you've all been holding you breath for the result of our competition cells brading the launch of Ancô's footie game, Player Manager, the successor to the outstanding fick off (which, incidentally, seems to be rapidly becoming EMAP's most played game – I can't get the at team out of the

started)
Anyway, the lucky winner of the Sony CCDF250
Camcorder is Alex Eddleston, Blackburn, Lancs.
In addition, Ralph Burton,
Oberniedon, Switzerland,
with perceiving a Liverpool shirt, and James Tinston, Wirral, Merseyside, a copy of the Player Manager game.

GOTTA HAND

And now, another knee trembler – the winner of the brand sparking new Atari Lynx hand held console. The incredibly lucky (likely to be mobbed) person is... wat for ix... Mix. Richard Hall, Thames Dit-

THE

INQUISITION
Thanks for the great
response to our 20 Questions readers survey in the
November '89 issue. The
results were quite revelationary and we will be
using them to tailor the
magazine to meet your

requirements. As a mark of gratitude, the following three people have received games for their machines: Mr. G. Shufflebotham, Worksop, Notts:, Joe Beattles, Carrickfergus, Co. Antrim; R.A. Rostron. Blackburn, Lancs.

COMPUTER BUGGIES The following ten people

buggy car kits being given. away by Digital Magic Soft-Force: Steve E. Button. Whitchurch, Bristol: John King, Broadstairs, Kent: Tom Mead, Hackney Lon don; Mr. D. J. Squire, Scunthorpe, South Humberside; Steve Wright, Nuneaton, Warwickshire-Ian Morse, Bedfoot Midds; lain Lowson, Hillhead, Glasgow; John Evans, Merseyside: Edward J. Graft, Wolver hampton, West Midlands;

M. McSwiggan, St.Andrews, Guern STRIDING OFF WITH

PRIZES
The ten people listed before will shortly be receiving T-shirts and posters for U.S. Gold's game Strider: Simon Baxter, Firswood, Manch-

game Strider: Simon Baxter, Firswood, Manchester; Michael K. Lysona, Widnes, Cheshire Sean Miller, Carshalton, Surrey; Mark Clewlow, Rugeley, Staffs; Richard Gowans, Chigwell Row, Essex; John Waterhouse, Chester; Mark Isan, Blackpool, Lancs; D. Cowle, Cleethorpes, S. Humberside; David Richardson, Suttonin Achfield, Notts.

FOOTBALL CRAZE These ten lucky people will

be receiving Subbutno the launch of their football game, Superleague Soc cer: Jason Carty, Wood Green, London; John Evans, Merseyside: Graham Clarke Melisham Witshire; Neil Stewart, land; Hans S. Berbes. Västerås, Sweden; Giles Newman, Ipswich, Suffolic Colin Owen, Carnaryon, Gwynedd; Mark Shaw, Cannock, Staffs; James Solomon, W.Hagley, W.Mds; Simon Parry. Bodorgon, Gwynedd.

GOLDEN

GRANDSLAM
After entering our recent
Grandslam Gewany,
which celebrates the
launch of the Saint and
Greanise Trivia Quit Game,
Rajhi Burston of Oberreiden, Switzerland, will soon
to the the proud possissor of
a match quality footbal
stigned by Saint and
Greanise. The following fish
propile will receive the
Saint and Greanise board
games G. Adile, Hemel
Hempstead, Herts: lam
Whitting, Wilcoster C. J.

Beaumont, Yarm, Cleve land; David Deans, St. Albans, Herts; Ian Skidmore, Bingham, Notts.

more, Bingham, Notts.

Meanwhile, back at
the ranch, this lucky quintet get the Saint and
Greavsie computer games

Robert Barrington, Uttox eter, Staffs.; Andrew Robinson, Bideford, N. Devor, Ross Higgins, Waderbridge, Cormalt, Greg Oakes, Sudbury, Suffolk, James Solomon, W. Haefer, W. Mids.

GHOSTLY GOINGS ON

Of the brave people who dared to enter our Level 9 Scapeghost compo, the following five leave alive with copies of the game: Kim Castermans, Diopenbeek, Beigium; Ian Wilding, Upholland, Lancs; Linda Bradley, Skelmerddale, Lancs; Vipul Solanki, Forest Gate, Lon-

Stocksbridge, Sheffield.

BRUCE LEE ALIVE AND KICKING!

I hope that Dominic Martynes of Manor Park, London, has got a video recorder because he's just won all of the Bruce Lee videos plus Mindscape's great game, Bruce Lee Lives!

These ten people can karate chop their way through a copy of the game: Mark Chamberlain, Norwich, Nortolic, David Whiting, Knowle, Eristol, Lee Andrews, Cardiff, S. Wales; Colin Young, Kirkinthoch, Gisgou; Ken Suen, Erdington, Bermagham, Silmot, Sookideb, Kingsbury, London; Dylon W. Soulter, Colymod N. Wales; Steven Gallagher, Cantebury. Kieff, Mark Northampton; David Susswein, Eastbourne, E Sussex.

FANTASTIC FERRARIS

Here are the five lucky winners of the remote control Ferrari F40s being given away by Domark to celebrate the launch of Hard Drivin'. We've also printed their 'withy and pertinent' phrases: David Couldwell. Stocksbridge.

Shaffield - Don't drive near a red mini; M. McSwiggan, St. Andrews, Guernsey - No red Ferrar² Drive Atarit; Kevin White-field, Rochester, Kert - Take me on a daning drive; Tony Swinburne, West Hampstead - The ravin' mad fender king; Mr. S. A. Siddiqui, Chiswick, Lon-

Th. th. that's all folks!

ATTENTION!

IT HAS COME TO OUR

XENON TECHNOLOGY OF PORTSMOUTH

HAVE CEASED TRADING

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NOT

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and ask for Alan

stick. Tel: 0704 37981

£385.

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Amiga contacts wanted reply Jason, 1 Henderson Street, Bridge of Allan, Stirling, Scotland, FK9 4NA or telephone 0786 832841.

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EXPERIENCED AMIGA new owner with occasional problems. Write to C. Bernard > 53 Guildford View, Norfolk 2NW

HELP WANTED for ST version of Raffles . extra lifes as I am climb ing up the wall - HELPT

IBM owner offer help on Battle Tech, Bards Tale, Kings Ouest !. 11. 111. Police Quest 1, Space Ouest 1, 11, Leisure commandos, Trojan, Ghosts N' Goblins, Revenge and any other

problems associated with IBM computers and compatibles. Plus conhints, tips games ect Perth, Western Australia, 6022

BLOODWYCH (ATARI ST) where is the Iron Key on Level one ? Desperate. please help. Telephone RAE 0224 734723 NOWIE

CAN ANYONE OUT THERE HELP ME with SEGA MASTER SYSTEM called "Spellcaster", I cannot find the Vaiira other weapon. I also need to know the exact the enemy you fight in

the Pyramid. I also need

the defense weapons.

replies to Glen McLauch Ian. 12c Swallow Rd. Faifley, Clydebank, G81 5BW. I can also give help for a lot of other Sega games.

gramming, games, suphelp, SAE Stephen Shaw, 10 Alstone Rd Stockport, Ches.

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THE ACE STOCKMARKET ENTRY **FORM** ROUND FOUR

My prediction for next month's top three software houses on the	My prediction for next month's top	My prediction for next month's top	27th March 1990 My prediction for next month's top p three games on the PC is:	worth of software for your machine waiting for the entry who gets closest to predicting the correct entries in		
Company Counter is:	three games on the Spectrum is:	three games on the Atari ST is:	1	each category. In the case of a tie, the win- ner will be the entry picked at random from		
3	3	3.	3	the correct qualifying entries. If anyone gets ALL five entries right in ANY category, they win		
My prediction for next month's top three game on the Commodore	My prediction for next month's top three games on the Amstrad CPC	My prediction for next month's tog three games on the Amiga is:	Rules: p All entries must be received by the clos- ing date for this round of March 27th1990.	a JACKPOT PRIZE of £150 worth of soft- ware for their machine. And remember – under		
64 is:	1	1	No employees of EMAP, or of any com- pany involved in the production, distribu- tion, or sale of ACE Magazine are elig- ble for entry.	the new prize condi- tions, we award prizes EVERY MONTHE A photocopy of		
3	3	3	Only one entry per household. The decision of the judges is final and correspondence cannot be entered into.	this form (or a neatly laid out postcard) is acceptable.		
HOW TO PLACE YOUR ENTRY All you have to do is send off the form below, together with your payment; Entries to the Pink Pages cost just £4.00 each. (Except for helpline which is free). The maximum is 20 words except for Helpline, (Helpline entries can be extended to 100 words max – use another sheet of paper if necessary). The service is NOT open to trade advertisers. We will print your advertisement in the first available issue. Entries which could be interpreted as encouracing software piracy will not be accepted.						
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WHAT YOU HAVE TO DO

Check out page 106 for tips on how to win with the ACE Stockmarket, then fill in the form with your predictions for next month's

market, Priory Court.

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Worldwide.....109

The BLITTER END

THE SECRET'S OUT!



r is it? Last month's Bitter carried a piece about Steve Franklin of Commodore, who bullishly declared the existence of a secret weapon which would keep the Japanese console invasion at bay.

Since then, there has been no elaboration from Commodore on what this secret weapon might be (no, if's not David Jensen – that cheque in the picture is for charity, not for repelling the Japanesel. Bitter, however, has an inkling of what could be in the wind.

Punters at this year's CES show see reportin this issue on page 18 lb were beguiled by reports of cartridge software for the C64. This doesn't sound particularly interesting, except that it would enable Commodore to produce at very littile cost a small plastic box with a cartridge size, two joystick ports, a video outlet, and a power

This box would run games like Boulderdash, impossible Mission, Elite, and Mercenary. Well, it would if the programmers of some of these titles could be persuaded to produce joystick only versions.

Boxes like these are called consoles, and Commodore – if the rumours are to be believed – may well think they've got a Nintendo beater on their hands.

There are, unfortunately, two flaws in this pill-isosphy. The first is that for many punters the word console does not mean cheap plastic box with great games anymore. It means not-so-cheap plastic box with state-of-the-art gradies and sound technology and a smaller number of technically impressive titles.

The second flaw has already been pointed out by Bitter in previous issues. If Wintendo decide to enter the European market (and Bitter doesn't believe they will but more of that another month), they will do so in force. The company are now in a postion to GNYE AWY their NES console to everyone who can jump the queue at

Dixons, provided, of course, that the punter pays out £30 for his first game cartridge. From then, Nintendo will reap yet more profits from the sale of further titles. Faced with the technological snobbishness of

roday's console buyer and the sheer weight of the world's largest cash mountain, it's difficult to imagine anyone – including Commodore – winning the battle. Stand by for more on this next month...

QED recently showed a TV program which purported to examine the computer game phenomenon. What we got instead was yet another diatribe against gamesters, who, it appears, are turning their brans to custant by sitting staring at the TV all day.

This is a bit of a joke, sin't 6? A TV program

telling us that watching too much TV is not a good thing? At least with games you interact with, get involved with, and have a degree of control over the medium. With TV, however, you just have to sit and swallow it. Question: if you had to choose a Prime Minis-

possonic you need to choose a firme miniter from either the ranks of those who watch Neighbours and Coronation Street all the time or from the ranks of those who can demonstrate a high score in Dungeon Master, which group would you favour? No contest, Q.E.D.

On the other hand, perhaps (ED have a point, At CES, representatives of the UK software industry put up a good show for themselves. Led by someone who shall remain nameless, they drank themselves into the ground, saig Brits on the piss", and then disappeared into The Palamino to opport, and the disappeared into The Palamino to opport and the disappeared into The Palamino to opport and the disappeared on the think of games software can do to the soul.

Blit-Blit!

YANKEE DOODLE!

Boy, have we got a special issue lined up for you!

Next month, we're sending intrepid ACE

reporters to the US of A to bring you red hot coverage of some of the most exciting games developments on the West Coast.

We're planning the itinerary now as we go to press, but we expect to be providing you with an exclusive glimpse of George Lucas' ranch and

the CD-I development projects underway at Lucasfilms, Electronic Arts, Cinemaware, and AIM – American Interactive Media

Best of all for some readers, however, will be a sneak peek at the development work now being carried on by Robyn and Rand Miller of Cyan – the team who brought you

Cosmic Osmo.

Don't miss next month's

ACE – taking you to the
far frontiers of computer

ontiers of compute entertainment.

Ooops!

Blitter would never be complete without an Ooops or two. Last month the Arcade Pages succumbed to the printer's curse: they were printed the wrong way round! Whoopsy daisy...

